27. (Amended) A compound of Formula (I):

(I)

wherein:

R¹ is selected from the group consisting of:

- A) hydrogen;
- B) alkyl of from 1 to 6 carbon atoms;
- C) substituted alkyl of from 1 to 10 carbon atoms, having 1 to 5 substituents selected from the group consisting of:
 - (1) alkoxy as defined in V herein;
 - (2) substituted alkoxy as defined in B¹ herein;
 - (3) acyl as defined in R¹ herein;
 - (4) acylamino as defined in S¹ herein;
 - (5) thiocarbonylamino as defined in B² herein;
 - (6) acyloxy as defined in T¹ herein;
 - (7) amino having the formula "-NH₂-";
 - (8) amidino having the formula "H₂NC(=NH)-";
 - (9) alkyl amidino wherein alkyl is defined in B herein and amidino is defined in C8 herein;
 - (10) thioamidino as defined in A² herein;
 - (11) aminoacyl as defined in U¹ herein;
 - (12) aminocarbonylamino as defined in V¹ herein;

- (13) aminothiocarbonylamino as defined in W¹ herein;
- (14) aminocarbonyloxy as defined in X^1 herein;
- (15) aryl as defined in J herein;
- (16) substituted aryl as defined in K herein;
- (17) aryloxy as defined in I¹ herein;
- (18) substituted aryloxy as defined in J¹ herein;
- (19) aryloxyaryl having the formula "aryl-O-aryl";
- (20) substituted aryloxyaryl having the formula "aryl-O-aryl" substituted with from 1 to 3 substituents on either or both aryl rings selected from the group consisting of:
 - (a) hydroxy;
 - (b) acyl as defined in R¹ herein;
 - (c) acylamino as defined in S¹ herein;
 - (d) thiocarbonylamino as defined in B² herein;
 - (e) acyloxy as defined in T¹ herein;
 - (f) alkyl as defined in B herein;
 - (g) substituted alkyl as defined in C herein;
 - (h) alkoxy as defined in V herein;
 - (i) substituted alkoxy as defined in B¹ herein;
 - (j) alkenyl as defined in D herein;
 - (k) substituted alkenyl as defined in E herein;
 - (1) alkynyl as defined in U herein;
 - (m) substituted alkynyl as defined in Q²31 herein;
 - (n) amidino as defined in C8 herein;
 - (o) alkylamidino wherein alkyl is defined in B herein and amidino is defined in C8 herein;
 - (p) thioamidino as defined in A² herein;
 - (q) amino as defined in C7 herein;
 - (r) aminoacyl as defined in U¹ herein;

- (s) aminocarbonyloxy as defined in X^1 herein;
- (t) aminocarbonylamino as defined in V¹ herein;
- (u) aminothiocarbonylamino as defined in W¹ herein;
- (v) aryl as defined in J herein;
- (w) substituted aryl as defined in K herein;
- (x) aryloxy as defined in I¹ herein;
- (y) substituted aryloxy as defined in J¹ herein;
- (z) cycloalkoxy as defined in E¹ herein;
- (a¹) substituted cycloalkoxy as defined in F¹ herein;
- (b¹) heteroaryloxy as defined in K¹ herein;
- (c¹) substituted heteroaryloxy as defined in L¹ herein;
- (d¹) heterocyclyloxy as defined in M¹ herein;
- (e¹) substituted heterocyclyloxy as defined in N¹ herein;
- (f¹) carboxyl;
- (g¹) carboxylalkyl wherein alkyl is defined in B herein;
- (h¹) carboxyl-substituted alkyl wherein substituted alkyl is defined in C herein;
- (i¹) carboxyl-cycloalkyl wherein cycloalkyl is defined in F herein;
- (j¹) carboxyl-substituted cycloalkyl wherein substituted cycloalkyl is defined in G herein;
- (k1) carboxylaryl wherein aryl is defined in J herein;
- (l1) carboxyl-substituted aryl wherein substituted aryl is defined in K herein;
- (m¹) carboxylheteroaryl wherein heteroaryl is defined in L herein;
- (n1) carboxyl-substituted heteroaryl wherein substituted heteroaryl is defined in M herein;

- (o¹) carboxylheterocyclic wherein heterocyclic is defined in N herein;
- (p¹) carboxyl-substituted heterocyclic wherein substituted heterocyclic is defined in O herein;
- (q¹) carboxylamido;
- (r1) cyano;
- (s 1) thiol as defined in X^2 herein;
- (t1) thioalkyl as defined in X herein;
- (u¹) substituted thioalkyl as defined in C42 herein;
- (v¹) thioaryl as defined in C43 herein;
- (w¹) substituted thioaryl as defined in C44 herein;
- (x^1) thioheteroaryl as defined in C47 herein;
- (y¹) substituted thioheteroaryl as defined in C48 herein;
- (z¹) thiocycloalkyl as defined in C45 herein;
- (a²) substituted thiocycloalkyl as defined in C46 herein;
- (b²) thioheterocyclic as defined in C49 herein;
- (c²) substituted thioheterocyclic as defined in C50 herein;
- (d²) cycloalkyl as defined in F herein;
- (e²) substituted cycloalkyl as defined in G herein;
- (f²) guanidino as defined in C38 herein;
- (g²) guanidinosulfone as defined in C39 herein;
- (h²) halo as defined in Q herein;
- (i²) nitro;
- (j²) heteroaryl as defined in L herein;
- (k²) substituted heteroaryl as defined in M herein;
- (l²) heterocyclic as defined in N herein;
- (m²) substituted heterocyclic as defined in O herein;
- (n²) cycloalkoxy as defined in E¹ herein;
- (o²) substituted cycloalkoxy as defined in F¹ herein;

- (p²) heteroaryloxy as defined in K¹ herein;
- (q²) substituted heteroaryloxy as defined in L¹ herein;
- (r²) heterocyclyloxy as defined in M¹ herein;
- (s²) substituted heterocyclyloxy as defined in N¹ herein;
- (t2) oxycarbonylamino as defined in Y1 herein;
- (u^2) oxythiocarbonylamino as defined in Z^1 herein;
- (v^2) -S(O)₂-alkyl wherein alkyl is defined in B herein;
- (w²) -S(O)₂-substituted alkyl wherein substituted alkyl is defined in C herein;
- (x²) -S(O)₂-cycloalkyl wherein cycloalkyl is defined in F herein;
- (y²) -S(O)₂-substituted cycloalkyl wherein substituted cycloalkyl is defined in G herein;
- (z^2) -S(O)₂-alkenyl wherein alkenyl is defined in D herein;
- (a³) -S(O)₂-substituted alkenyl wherein substituted alkenyl is defined in E herein;
- (b^3) -S(O)₂-aryl wherein aryl is defined in J herein;
- (c³) -S(O)₂-substituted aryl wherein substituted aryl is defined in K herein;
- (d³) -S(O)₂-heteroaryl wherein heteroaryl is defined in L herein;
- (e³) -S(O)₂-substituted heteroaryl wherein substituted aryl is defined in M herein;
- -S(O)₂-heterocyclic wherein heterocyclic is defined in N
 herein;
- (g³) -S(O)₂-substituted heterocyclic wherein substituted heterocyclic is defined in O herein;
- (h³) -OS(O)₂-alkyl wherein alkyl is defined in B herein;

- (i³) -OS(O)₂-substituted alkyl wherein substituted alkyl is defined in C herein;
- (j^3) -OS(O)₂-aryl wherein aryl is defined in J herein;
- (k³) -OS(O)₂-substituted aryl wherein substituted aryl is defined in K herein;
- (l³) -OS(O)₂-heteroaryl wherein heteroaryl is defined in L herein;
- (m³) -OS(O)₂-substituted heteroaryl wherein substituted heteroaryl is defined in M herein;
- (n³) -OS(O)₂-heterocyclic wherein heterocyclic is defined in N herein;
- (o³) -OS(O)₂-substituted heterocyclic wherein substituted heterocyclic is defined in O herein;
- (p^3) -OSO₂-NRR where R is:
 - (i) hydrogen; or
 - (ii) alkyl as defined in B herein;
- (q³) -NRS(O)₂-alkyl wherein alkyl is defined in B herein;
- (r³) -NRS(O)₂-substituted alkyl wherein substituted alkyl is defined in C herein;
- (s³) -NRS(O)₂-aryl wherein aryl is defined in J herein;
- (t³) -NRS(O)₂-substituted aryl wherein substituted aryl is defined in K herein;
- (u³) -NRS(O)₂-heteroaryl wherein heteroaryl is defined in L herein;
- (v³) -NRS(O)₂-substituted heteroaryl wherein substituted heteroaryl is defined in M herein;
- (w³) -NRS(O)₂-heterocyclic wherein heterocyclic is defined in N herein;

- (x³) -NRS(O)₂-substituted heterocyclic wherein substituted heterocyclic is defined in O herein;
- (y³) -NRS(O)₂-NR-alkyl wherein alkyl is defined in B herein;
- (z³) -NRS(O)₂-NR-substituted alkyl wherein substituted alkyl is defined in C herein;
- (a⁴) -NRS(O)₂-NR-aryl wherein aryl is defined in J herein;
- (b⁴) -NRS(O)₂-NR-substituted aryl wherein substituted aryl is defined in K herein;
- (c⁴) -NRS(O)₂-NR-heteroaryl wherein heteroaryl is defined in L herein;
- (d⁴) -NRS(O)₂-NR-substituted heteroaryl wherein substituted heteroaryl is defined in M herein;
- (e⁴) -NRS(O)₂-NR-heterocyclic wherein heterocyclic is defined in N herein;
- (f⁴) -NRS(O)₂-NR-substituted heterocyclic wherein substituted heterocyclic is defined in O herein and where R is:
 - (i) hydrogen; or
 - (ii) alkyl as defined in B herein;
- (g⁴) mono- and di-alkylamino wherein alkylamino is defined in I²9 herein;
- (h⁴) mono- and di-(substituted alkyl)amino wherein substituted alkylamino is defined in I²10 herein;
- (i⁴) mono- and di-arylamino wherein aryl is defined in J herein and amino is defined in C7 herein;
- (j⁴) mono- and di-substituted arylamino wherein substituted aryl is defined in K herein and amino is defined in C7 herein;

- (k⁴) mono- and di-heteroarylamino wherein heteroaryl is defined in L herein and amino is defined in C7 herein;
- (l⁴) mono- and di-substituted heteroarylamino wherein substituted heteroaryl is defined in M herein and amino is defined in C7 herein;
- (m⁴) mono- and di-heterocyclic amino wherein heterocyclic is defined in N herein and amino is defined in C7 herein;
- (n⁴) mono- and di-substituted heterocyclic amino wherein substituted heterocyclic is defined in O herein and amino is defined in C7 herein;
- (o⁴) unsymmetric di-substituted amines having different substituents selected from:
 - (i) alkyl as defined in B herein;
 - (ii) substituted alkyl as defined in C herein;
 - (iii) aryl as defined in J herein;
 - (iv) substituted aryl as defined in K herein;
 - (v) heteroaryl as defined in L herein;
 - (vi) substituted heteroaryl as defined in M herein;
 - (vii) heterocyclic as defined in N herein;
 - (viii) substituted heterocyclic as defined in O herein; and
 - (ix) amino groups, as defined in C7 herein, on the substituted aryl blocked by conventional blocking groups such as Boc, Cbz, formyl, and the like or substituted with -SO₂NRR where R is:
 - (a) hydrogen; or
 - (b) alkyl as defined in B herein;

- (21) cyano;
- (22) halogen as defined in Q herein;
- (23) hydroxyl;
- (24) nitro;
- (25) carboxyl;
- (26) carboxylalkyl wherein alkyl is defined in B herein;
- (27) carboxyl-substituted alkyl wherein substituted alkyl is defined in C herein;
- (28) carboxyl-cycloalkyl wherein cycloalkyl is defined in F herein;
- (29) carboxyl-substituted cycloalkyl wherein substituted cycloalkyl is defined in G herein;
- (30) carboxylaryl wherein aryl is defined in J herein;
- (31) carboxyl-substituted aryl wherein substituted aryl is defined in K herein;
- (32) carboxylheteroaryl wherein heteroaryl is defined in L herein;
- (33) carboxyl-substituted heteroaryl wherein substituted heteroaryl is defined in M herein;
- (34) carboxylheterocyclic wherein heterocyclic is defined in N herein;
- (35) carboxyl-substituted heterocyclic wherein substituted heterocyclic is defined in O herein;
- (36) cycloalkyl as defined in F herein;
- (37) substituted cycloalkyl as defined in G herein;
- (38) guanidino having the formula -NRC(=NR)NRR, NRC(=NR)NR-alkyl, -NRC(=NR)NR-substituted alkyl, NRC(=NR)NR-alkenyl, -NRC(=NR)NR-substituted alkenyl, NRC(=NR)NR-alkynyl, -NRC(=NR)NR-substituted alkynyl, NRC(=NR)NR-aryl, -NRC(=NR)NR-substituted aryl, NRC(=NR)NR-cycloalkyl, -NRC(=NR)NR-heteroaryl, -

(° 1

heterocyclic, and -NRC(=NR)NR-substituted heterocyclic where each R is independently hydrogen and alkyl as well as where one of the amino groups is blocked by conventional blocking groups such as Boc, Cbz, formyl, and the like and wherein alkyl is defined in B herein; substituted alkyl is defined in C herein; alkenyl is defined in D herein; substituted alkenyl is defined in E herein; alkynyl is defined in U herein; substituted alkynyl is defined in Q²31 herein; cycloalkyl is defined in F herein; substituted cycloalkyl is defined in G herein; aryl is defined in J herein; substituted aryl is defined in K herein; heteroaryl is defined in L herein; substituted heteroaryl is defined in M herein; heterocyclic is defined in N herein; and substituted heterocyclic is defined in O herein; guanidinosulfone having the formula -NRC(=NR)NRSO₂-alkyl, (39)-NRC(=NR)NRSO₂-substituted alkyl, -NRC(=NR)NRSO₂alkenyl, -NRC(=NR)NRSO2-substituted alkenyl, -NRC(=NR)NRSO₂-alkynyl,-NRC(=NR)NRSO₂-substituted alkynyl, -NRC(=NR)NRSO2-aryl,-NRC(=NR)NRSO2substituted aryl, -NRC(=NR)NRSO2-cycloalkyl, -NRC(=NR)NRSO₂-substituted cycloalkyl, -NRC(=NR)NRSO₂heteroaryl, and -NRC(=NR)NRSO₂-substituted heteroaryl, -NRC(=NR)NRSO₂-heterocyclic, and -NRC(=NR)NRSO₂substituted heterocyclic where each R is independently hydrogen and alkyl and wherein alkyl is defined in B herein; substituted alkyl is defined in C herein; alkenyl is defined in D herein; substituted alkenyl is defined in E herein; alkynyl is defined in U herein; substituted alkynyl is defined in Q²31 herein; cycloalkyl is defined in F herein; substituted cycloalkyl

NRC(=NR)NR-substituted heteroaryl, -NRC(=NR)NR-

is defined in G herein; aryl is defined in J herein; substituted aryl is defined in K herein; heteroaryl is defined in L herein; substituted heteroaryl is defined in M herein; heterocyclic is defined in N herein; and substituted heterocyclic is defined in O herein;

- (40) thiol as defined in X^2 herein;
- (41) thioalkyl as defined in X herein;
- (42) substituted thioalkyl having the formula "-S-substituted alkyl";
- (43) thioaryl having the formula "-S-aryl";
- (44) substituted thioaryl having the formula "-S-substituted aryl";
- (45) thiocycloalkyl having the formula "-S-cycloalkyl";
- (46) substituted thiocycloalkyl having the formula "-S-substituted cycloalkyl";
- (47) thioheteroaryl having the formula "-S-heteroaryl";
- (48) substituted thioheteroaryl having the formula "-s-substituted heteroaryl";
- (49) thioheterocyclic having the formula "-S-heterocyclic";
- (50) substituted thioheterocyclic having the formula "-S-substituted heterocyclic";
- (51) heteroaryl as defined in L herein;
- (52) substituted heteroaryl as defined in M herein;
- (53) heterocyclic as defined in N herein;
- (54) substituted heterocyclic as defined in O herein;
- (55) cycloalkoxy as defined in E^1 herein;
- (56) substituted cycloalkoxy as defined in F¹ herein;
- (57) heteroaryloxy as defined in K¹ herein;
- (58) substituted heteroaryloxy as defined in L¹ herein;
- (59) heterocyclyloxy as defined in M¹ herein;
- (60) substituted heterocyclyloxy as defined in N¹ herein;

- (61) oxycarbonylamino as defined in Y¹ herein;
- (62) oxythiocarbonylamino as defined in Z¹ herein;
- (63) -OS(O)₂-alkyl wherein alkyl is defined in B herein;
- (64) -OS(O)₂-substituted alkyl wherein substituted alkyl is defined in C herein;
- (65) -OS(O)₂-aryl wherein aryl is defined in J herein;
- (66) -OS(O)₂-substituted aryl wherein substituted aryl is defined in K herein;
- (67) -OS(O)₂-heteroaryl wherein heteroaryl is defined in L herein;
- (68) -OS(O)₂-substituted heteroaryl wherein substituted heteroaryl is defined in M herein;
- (69) -OS(O)₂-heterocyclic wherein heterocyclic is defined in N herein;
- (70) -OS(O)₂-substituted heterocyclic wherein substituted heterocyclic is defined in O herein;
- (71) $-OSO_2$ -NRR where R is:
 - (a) hydrogen; or
 - (b) alkyl as defined in B herein;
- (72) -NRS(O)₂-alkyl wherein alkyl is defined in B herein;
- (73) -NRS(O)₂-substituted alkyl wherein substituted alkyl is defined in C herein;
- (74) -NRS(O)₂-aryl wherein aryl is defined in J herein;
- (75) -NRS(O)₂-substituted aryl wherein substituted aryl is defined in K herein;
- (76) -NRS(O)₂-heteroaryl wherein heteroaryl is defined in L herein;
- (77) -NRS(O)₂-substituted heteroaryl wherein substituted heteroaryl is defined in M herein;
- (78) -NRS(O)₂-heterocyclic wherein heterocyclic is defined in N herein;

- (79) -NRS(O)₂-substituted heterocyclic wherein substituted heterocyclic is defined in O herein;
- (80) -NRS(O)₂-NR-alkyl wherein alkyl is defined in B herein;
- (81) -NRS(O)₂-NR-substituted alkyl wherein substituted alkyl is defined in C herein;
- (82) -NRS(O)₂-NR-aryl wherein aryl is defined in J herein;
- (83) -NRS(O)₂-NR-substituted aryl wherein substituted aryl is defined in K herein;
- (84) -NRS(O)₂-NR-heteroaryl wherein heteroaryl is defined in L herein;
- (85) -NRS(O)₂-NR-substituted heteroaryl wherein substituted heteroaryl is defined in M herein;
- (86) -NRS(O)₂-NR-heterocyclic wherein heterocyclic is defined in N herein;
- (87) -NRS(O)₂-NR-substituted heterocyclic wherein substituted heterocyclic is defined as O herein and where R is:
 - (a) hydrogen; or
 - (b) alkyl as defined in B herein;
- (88) mono- and di-alkylamino wherein alkylamino is defined in I²9 herein;
- (89) mono- and di-(substituted alkyl)amino wherein substituted alkylamino is defined in I²10 herein;
- (90) mono- and di-arylamino wherein aryl is defined in J herein and amino is defined in C7 herein;
- (91) mono- and di-substituted arylamino wherein substituted aryl is defined in K herein and amino is defined in C7 herein;
- (92) mono- and di-heteroarylamino wherein heteroaryl is defined in L herein and amino is defined in C7 herein;

- (93) mono- and di-substituted heteroarylamino wherein substituted heteroaryl is defined in M herein and amino is defined in C7 herein;
- (94) mono- and di-heterocyclic amino wherein heterocyclic is defined in N herein and amino is defined in C7 herein;
- (95) mono- and di-substituted heterocyclic amino wherein substituted heterocyclic is defined in O herein and amino is defined in C7 herein;
- (96) unsymmetric di-substituted amines having different substituents selected from:
 - (a) alkyl as defined in B herein;
 - (b) substituted alkyl as defined in C herein;
 - (c) aryl as defined in J herein;
 - (d) substituted aryl as defined in K herein;
 - (e) heteroaryl as defined in L herein;
 - (f) substituted heteroaryl as defined in M herein;
 - (g) heterocyclic as defined in N herein;
 - (h) substituted heterocyclic as defined in O herein; and
 - (i) substituted alkyl groups having amino groups blocked by conventional blocking groups such as Boc, Cbz, formyl, and the like or alkyl/substituted alkyl groups substituted with:
 - (i) -SO₂-alkyl wherein alkyl is defined in B herein;
 - (ii) -SO₂-substituted alkyl wherein substituted alkyl is defined in C herein;
 - (iii) -SO₂-alkenyl wherein alkenyl is defined in D herein;
 - (iv) -SO₂-substituted alkenyl wherein substituted alkenyl is defined in E herein;

- (v) -SO₂-cycloalkyl wherein cycloalkyl is defined in F herein;
- (vi) -SO₂-substituted cycloalkyl wherein substituted cycloalkyl is defined in G herein;
- (vii) -SO₂-aryl wherein aryl is defined in J herein;
- (viii) -SO₂-substituted aryl wherein substituted aryl is defined in K herein;
- (ix) -SO₂-heteroaryl wherein heteroaryl is defined in L herein;
- (x) -SO₂-substituted heteroaryl wherein substituted heteroaryl is defined in M herein;
- -SO₂-heterocyclic wherein heterocyclic is defined in N herein;
- (xii) -SO₂-substituted heterocyclic wherein substituted heterocyclic is defined in O herein; and
- (xiii) -SO₂NRR where R is:
 - (a) hydrogen; or
 - (b) alkyl as defined in B herein;
- D) alkenyl of from 2 to 6 carbon atoms and from 1-2 sites of alkenyl unsaturation;
- E) substituted alkenyl of from 1 to 5 substituents selected from the group consisting of:
 - (1) alkoxy as defined in V herein;
 - (2) substituted alkoxy as defined in B¹ herein;
 - (3) acyl as defined in R¹ herein;
 - (4) acylamino as defined in S¹ herein;
 - (5) thiocarbonylamino as defined in B² herein;
 - (6) acyloxy as defined in T¹ herein;

- (7) amino as defined in C7 herein;
- (8) amidino as defined in C8 herein;
- (9) alkylamidino wherein alkyl is defined in B herein and amidino is defined in C8 herein;
- (10) thioamidino as defined in A^2 herein;
- (11) aminoacyl as defined in U¹ herein;
- (12) aminocarbonylamino as defined in V¹ herein;
- (13) aminothiocarbonylamino as defined in W¹ herein;
- (14) aminocarbonyloxy as defined in X^1 herein;
- (15) aryl as defined in J herein;
- (16) substituted aryl as defined in K herein;
- (17) aryloxy as defined in I¹ herein;
- (18) substituted aryloxy as defined in J^1 herein;
- (19) aryloxyaryl as defined in C19 herein;
- (20) substituted aryloxyaryl as defined in C20 herein;
- (21) halogen as defined in Q herein;
- (22) hydroxyl;
- (23) cyano;
- (24) nitro;
- (25) carboxyl;
- (26) carboxylalkyl wherein alkyl is defined in B herein;
- (27) carboxyl-substituted alkyl wherein substituted alkyl is defined in C herein;
- (28) carboxyl-cycloalkyl wherein cycloalkyl is defined in F herein;
- (29) carboxyl-substituted cycloalkyl wherein substituted cycloalkyl is defined in G herein;
- (30) carboxylaryl wherein aryl is defined in J herein;
- (31) carboxyl-substituted aryl wherein substituted aryl is defined in K herein;

- (32) carboxylheteroaryl wherein heteroaryl is defined in L herein;
- (33) carboxyl-substituted heteroaryl wherein substituted heteroaryl is defined in M herein;
- (34) carboxylheterocyclic wherein heterocyclic is defined in N herein;
- (35) carboxyl-substituted heterocyclic wherein substituted heterocyclic is defined in O herein;
- (36) cycloalkyl as defined in F herein;
- (37) substituted cycloalkyl as defined in G herein;
- (38) guanidino as defined in C38 herein;
- (39) guanidinosulfone as defined in C39 herein;
- (40) thiol as defined in X^2 herein;
- (41) thioalkyl as defined in X herein;
- (42) substituted thioalkyl as defined in C42 herein;
- (43) thioaryl as defined in C43 herein;
- (44) substituted thioaryl as defined in C44 herein;
- (45) thiocycloalkyl as defined in C45 herein;
- (46) substituted thiocycloalkyl as defined in C46 herein;
- (47) thioheteroaryl as defined in C47 herein;
- (48) substituted thioheteroaryl as defined in C48 herein;
- (49) thioheterocyclic as defined in C49 herein;
- (50) substituted thioheterocyclic as defined in C50 herein;
- (51) heteroaryl as defined in L herein;
- (52) substituted heteroaryl as defined in M herein;
- (53) heterocyclic as defined in N herein;
- (54) substituted heterocyclic as defined in O herein;
- (55) cycloalkoxy as defined in E¹ herein;
- (56) substituted cycloalkoxy as defined in F¹ herein;
- (57) heteroaryloxy as defined in K¹ herein;

- (58) substituted heteroaryloxy as defined in L¹ herein;
- (59) heterocyclyloxy as defined in M¹ herein;
- (60) substituted heterocyclyloxy as defined in N¹ herein;
- (61) oxycarbonylamino as defined in Y¹ herein;
- (62) oxythiocarbonylamino as defined in Z¹ herein;
- (63) -OS(O)₂-alkyl wherein alkyl is defined in B herein;
- (64) -OS(O)₂-substituted alkyl wherein substituted alkyl is defined in C herein;
- (65) -OS(O)₂-aryl wherein aryl is defined in J herein;
- (66) -OS(O)₂-substituted aryl wherein substituted aryl is defined in K herein;
- (67) -OS(O)₂-heteroaryl wherein heteroaryl is defined in L herein;
- (68) -OS(O)₂-substituted heteroaryl wherein substituted heteroaryl is defined in M herein;
- (69) -OS(O)₂-heterocyclic wherein heterocyclic is defined in N herein;
- (70) -OS(O)₂-substituted heterocyclic wherein substituted heterocyclic is defined in O herein;
- (71) OSO_2 -NRR where R is:
 - (a) hydrogen; or
 - (b) alkyl as defined in B herein;
- (72) -NRS(O)₂-alkyl wherein alkyl is defined in B herein;
- (73) -NRS(O)₂-substituted alkyl wherein substituted alkyl is defined in C herein;
- (74) -NRS(O)₂-aryl wherein aryl is defined in J herein;
- (75) -NRS(O)₂-substituted aryl wherein substituted aryl is defined in K herein;
- (76) -NRS(O)₂-heteroaryl wherein heteroaryl is defined in L herein;

- (77) -NRS(O)₂-substituted heteroaryl wherein substituted heteroaryl is defined in M herein;
- (78) -NRS(O)₂-heterocyclic wherein heterocyclic is defined in N herein;
- (79) -NRS(O)₂-substituted heterocyclic wherein substituted heterocyclic is defined in O herein;
- (80) -NRS(O)2-NR-alkyl wherein alkyl is defined in B herein;
- (81) -NRS(O)₂-NR-substituted alkyl wherein substituted alkyl is defined in C herein;
- (82) -NRS(O)₂-NR-aryl wherein aryl is defined in J herein;
- (83) -NRS(O)₂-NR-substituted aryl wherein substituted aryl is defined in K herein;
- (84) -NRS(O)₂-NR-heteroaryl wherein heteroaryl is defined in L herein;
- (85) -NRS(O)₂-NR-substituted heteroaryl wherein substituted heteroaryl is defined in M herein;
- (86) -NRS(O)₂-NR-heterocyclic wherein heterocyclic is defined in N herein;
- (87) -NRS(O)₂-NR-substituted heterocyclic wherein substituted heterocyclic is defined in O herein and where R is:
 - (a) hydrogen; or
 - (b) alkyl as defined in B herein;
- (88) mono- and di-alkylamino wherein alkylamino is defined in I²9 herein;
- (89) mono- and di-(substituted alkyl)amino wherein substituted alkylamino is defined in I²10 herein;
- (90) mono- and di-arylamino wherein aryl is defined in J herein and amino is defined in C7 herein;

- (91) mono- and di-substituted arylamino wherein substituted aryl is defined in K herein and amino is defined in C7 herein;
- (92) mono- and di-heteroarylamino wherein heteroaryl is defined inL herein and amino is defined in C7 herein;
- (93) mono- and di-substituted heteroarylamino wherein substituted heteroaryl is defined in M herein and amino is defined in C7 herein;
- (94) mono- and di-heterocyclic amino wherein heterocyclic is defined in N herein and amino is defined in C7 herein;
- (95) mono- and di-substituted heterocyclic amino wherein substituted heterocyclic is defined in O herein and amino is defined in C7 herein;
- (96) unsymmetric di-substituted amines having different substituents selected from:
 - (a) alkyl as defined in B herein;
 - (b) substituted alkyl as defined in C herein;
 - (c) aryl as defined in J herein;
 - (d) substituted aryl as defined in K herein;
 - (e) heteroaryl as defined in L herein;
 - (f) substituted heteroaryl as defined in M herein;
 - (g) heterocyclic as defined in N herein;
 - (h) substituted heterocyclic as defined in O herein; and
 - (i) substituted alkenyl groups having amino groups blocked by conventional blocking groups such as Boc, Cbz, formyl, and the like or alkenyl/substituted alkenyl groups substituted with:
 - (i) -SO₂-alkyl wherein alkyl is defined in B herein;
 - (ii) -SO₂-substituted alkyl wherein substituted alkyl is defined in C herein;

-SO₂-alkenyl wherein alkenyl is defined

-SO₂-substituted alkenyl wherein

in D herein;

		substituted alkenyl is defined in E herein;
	(v) -SO ₂ -cyclos	alkyl wherein cycloalkyl is defined in F
	herein;	
	(vi)	-SO ₂ -substituted cycloalkyl wherein
		substituted cycloalkyl is defined in G
		herein;
	(vii)	-SO ₂ -aryl wherein aryl is defined in J
		herein;
	(viii)	-SO ₂ -substituted aryl wherein substituted
	· · · · · · · · · · · · · · · · · · ·	aryl is defined in K herein;
	(ix)	-SO ₂ -heteroaryl wherein heteroaryl is
		defined in L herein;
	(x) $-SO_2$ -substi	tuted heteroaryl wherein substituted
	heteroaryl i	s defined in M herein;
	(xi)	-SO ₂ -heterocyclic wherein heterocyclic
		is defined in N herein;
	(xii)	-SO ₂ -substituted heterocyclic wherein
		substituted heterocyclic is defined in O
		herein; and
	(xiii)	-SO ₂ NRR where R is:
	(a)	hydrogen; or
	<i>(b)</i>	alkyl as defined in B herein;
F)	cycloalkyl of from 3 to 8 car	rbon atoms;
G)	substituted cycloalkyl of from 3 to 8 carbon atoms, having from 1 to 5	

substituents selected from the group consisting of:

(1) oxo (=0);

(iii)

(iv)

- (2) thioxo (=S);
- (3) alkoxy as defined in V herein;
- (4) substituted alkoxy as defined in B¹ herein;
- (5) acyl as defined in R¹ herein;
- (6) acylamino as defined in S¹ herein;
- (7) thiocarbonylamino as defined in B² herein;
- (8) acyloxy as defined in T¹ herein;
- (9) amino as defined in C7 herein;
- (10) amidino as defined in C8 herein;
- (11) alkylamidino wherein alkyl is defined in B herein and amidino is defined in C8 herein;
- (12) thioamidino as defined in A² herein;
- (13) aminoacyl as defined in U¹ herein;
- (14) aminocarbonylamino as defined in V¹ herein;
- (15) aminothiocarbonylamino as defined in W¹ herein;
- (16) aminocarbonyloxy as defined in X¹ herein;
- (17) aryl as defined in J herein;
- (18) substituted aryl as defined in K herein;
- (19) aryloxy as defined in I¹ herein;
- (20) substituted aryloxy as defined in J¹ herein;
- (21) aryloxyaryl as defined in C19 herein;
- (22) substituted aryloxyaryl as defined in C20 herein;
- (23) halogen as defined in Q herein;
- (24) hydroxyl;
- (25) cyano;
- (26) nitro;
- (27) carboxyl;
- (28) carboxylalkyl wherein alkyl is defined in B herein;

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- (29) carboxyl-substituted alkyl wherein substituted alkyl is defined in C herein;
- (30) carboxyl-cycloalkyl wherein cycloalkyl is defined in F herein;
- (31) carboxyl-substituted cycloalkyl wherein substituted cycloalkyl is defined in G herein;
- (32) carboxylaryl wherein aryl is defined in J herein;
- (33) carboxyl-substituted aryl wherein substituted aryl is defined in K herein;
- (34) carboxylheteroaryl wherein heteroaryl is defined in L herein;
- (35) carboxyl-substituted heteroaryl wherein substituted heteroaryl is defined in M herein;
- (36) carboxylheterocyclic wherein heterocyclic is defined in N herein;
- (37) carboxyl-substituted heterocyclic wherein substituted heterocyclic is defined in O herein;
- (38) cycloalkyl as defined in F herein;

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- (39) substituted cycloalkyl as defined in G herein;
- (40) guanidino as defined in C38 herein;
- (41) guanidinosulfone as defined in C39 herein;
- (42) thiol as defined in X^2 herein;
- (43) thioalkyl as defined in X herein;
- (44) substituted thioalkyl as defined in C42 herein;
- (45) thioaryl as defined in C43 herein;
- (46) substituted thioaryl as defined in C44 herein;
- (47) thiocycloalkyl as defined in C45 herein;
- (48) substituted thiocycloalkyl as defined in C46 herein;
- (49) thioheteroaryl as defined in C47 herein;
- (50) substituted thioheteroaryl as defined in C48 herein;
- (51) thioheterocyclic as defined in C49 herein;
- (52) substituted thioheterocyclic as defined in C50 herein;

- (53) heteroaryl as defined in L herein;
- (54) substituted heteroaryl as defined in M herein;
- (55) heterocyclic as defined in N herein;
- (56) substituted heterocyclic as defined in O herein;
- (57) cycloalkoxy as defined in E¹ herein;
- (58) substituted cycloalkoxy as defined in F¹ herein;
- (59) heteroaryloxy as defined in K¹ herein;
- (60) substituted heteroaryloxy as defined in L¹ herein;
- (61) heterocyclyloxy as defined in M¹ herein;
- (62) substituted heterocyclyloxy as defined in N¹ herein;
- (63) oxycarbonylamino as defined in Y¹ herein;
- (64) oxythiocarbonylamino as defined in Z¹ herein;
- (65) -OS(O)₂-alkyl wherein alkyl is defined in B herein;
- (66) -OS(O)₂-substituted alkyl wherein substituted alkyl is defined in C herein;
- (67) -OS(O)₂-aryl wherein aryl is defined in J herein;
- (68) -OS(O)₂-substituted aryl wherein substituted aryl is defined in K herein;
- (69) -OS(O)₂-heteroaryl wherein heteroaryl is defined in L herein;
- (70) -OS(O)₂-substituted heteroaryl wherein substituted heteroaryl is defined in M herein;
- (71) -OS(O)₂-heterocyclic wherein heterocyclic is defined in N herein;
- (72) -OS(O)₂-substituted heterocyclic wherein substituted heterocyclic is defined in O herein;
- (73) -OSO₂-NRR where R is:
 - (a) hydrogen; or
 - (b) alkyl as defined in B herein;
- (74) -NRS(O)₂-alkyl wherein alkyl is defined in B herein;

- (75) -NRS(O)₂-substituted alkyl wherein substituted alkyl is defined in C herein;
- (76) -NRS(O)₂-aryl wherein aryl is defined in J herein;
- (77) -NRS(O)₂-substituted aryl wherein substituted aryl is defined in K herein;
- (78) -NRS(O)₂-heteroaryl wherein heteroaryl is defined in L herein;
- (79) -NRS(O)₂-substituted heteroaryl wherein substituted heteroaryl is defined in M herein;
- (80) -NRS(O)₂-heterocyclic wherein heterocyclic is defined in N herein;
- (81) -NRS(O)₂-substituted heterocyclic wherein substituted heterocyclic is defined in O herein;
- (82) -NRS(O)₂-NR-alkyl wherein alkyl is defined in B herein;
- (83) -NRS(O)₂-NR-substituted alkyl wherein substituted alkyl is defined in C herein;
- (84) -NRS(O),-NR-aryl wherein aryl is defined in J herein;
- (85) -NRS(O)₂-NR-substituted aryl wherein substituted aryl is defined in K herein;
- (86) -NRS(O)₂-NR-heteroaryl wherein heteroaryl is defined in L herein;
- (87) -NRS(O)₂-NR-substituted heteroaryl wherein substituted heteroaryl is defined in M herein;
- (88) -NRS(O)₂-NR-heterocyclic wherein heterocyclic is defined in N herein;
- (89) -NRS(O)₂-NR-substituted heterocyclic wherein substituted heterocyclic is defined in O herein and where R is:
 - (a) hydrogen; or
 - (b) alkyl as defined in B herein;

- (90) mono- and di-alkylamino wherein alkylamino is defined in I²9 herein;
- (91) mono- and di-(substituted alkyl)amino wherein substituted alkylamino is defined in I²10 herein;
- (92) mono- and di-arylamino wherein aryl is defined in J herein and amino is defined in C7 herein;
- (93) mono- and di-substituted arylamino wherein substituted aryl is defined in K herein and amino is defined in C7 herein;
- (94) mono- and di-heteroarylamino wherein heteroaryl is defined in L herein and amino is defined in C7 herein;
- (95) mono- and di-substituted heteroarylamino wherein substituted heteroaryl is defined in M herein and amino is defined in C7 herein;
- (96) mono- and di-heterocyclic amino wherein heterocyclic is defined in N herein and amino is defined in C7 herein;
- (97) mono- and di-substituted heterocyclic amino wherein substituted heterocyclic is defined in O herein and amino is defined in C7 herein;
- (98) unsymmetric di-substituted amines having different substituents selected from:
 - (a) alkyl as defined in B herein;
 - (b) substituted alkyl as defined in C herein;
 - (c) aryl as defined in J herein;
 - (d) substituted aryl as defined in K herein;
 - (e) heteroaryl as defined in L herein;
 - (f) substituted heteroaryl as defined in M herein;
 - (g) heterocyclic as defined in N herein;
 - (h) substituted heterocyclic as defined in O herein; and

- (i) substituted alkynyl groups having amino groups blocked by conventional blocking groups such as Boc, Cbz, formyl, and the like or alkynyl/substituted alkynyl groups substituted with:
 - (i) -SO₂-alkyl wherein alkyl is defined in B herein;
 - (ii) -SO₂-substituted alkyl wherein substituted alkyl is defined in C herein;
 - (iii) -SO₂-alkenyl wherein alkenyl is defined in D herein;
 - (iv) -SO₂-substituted alkenyl wherein substituted alkenyl is defined in E herein;
 - (v) -SO₂-cycloalkyl wherein cycloalkyl is defined in F herein;
 - -SO₂-substituted cycloalkyl wherein substituted cycloalkyl is defined in G herein;
 - (vii) -SO₂-aryl wherein aryl is defined in J herein;
 - (viii) -SO₂-substituted aryl wherein substituted aryl is defined in K herein;
 - -SO₂-heteroaryl wherein heteroaryl is defined in L herein;
 - (x) -SO₂-substituted heteroaryl wherein substituted heteroaryl is defined in M herein;
 - -SO₂-heterocyclic wherein heterocyclic is defined in N herein;
 - (xii) -SO₂-substituted heterocyclic wherein substituted heterocyclic is defined in O herein; and

(xiii) -SO₂NRR where R is:

- (a) hydrogen; or
- (b) alkyl as defined in B herein;
- H) cycloalkenyl of from 3 to 8 carbon atoms;
- I) substituted cycloalkenyl of from 3 to 8 carbon atoms, having from 1 to5 substituents selected from the group consisting of:
 - (1) oxo (=0);
 - (2) thioxo (=S);
 - (3) alkoxy as defined in V herein;
 - (4) substituted alkoxy as defined in B¹ herein;
 - (5) acyl as defined in R¹ herein;
 - (6) acylamino as defined in S¹ herein;
 - (7) thiocarbonylamino as defined in B² herein;
 - (8) acyloxy as defined in T¹ herein;
 - (9) amino as defined in C7 herein;
 - (10) amidino as defined in C8 herein;
 - (11) alkylamidino wherein alkyl is defined in B herein and amidino is defined in C8 herein;
 - (12) thioamidino as defined in A² herein;
 - (13) aminoacyl as defined in U¹ herein;
 - (14) aminocarbonylamino as defined in V^1 herein;
 - (15) aminothiocarbonylamino as defined in W1 herein;
 - (16) aminocarbonyloxy as defined in X1 herein;
 - (17) aryl as defined in J herein;
 - (18) substituted aryl as defined in K herein;
 - (19) aryloxy as defined in I¹ herein;
 - (20) substituted aryloxy as defined in J¹ herein;
 - (21) aryloxyaryl as defined in C19 herein;
 - (22) substituted aryloxyaryl as defined in C20 herein;

- (23) halogen as defined in Q herein;
- (24) hydroxyl;
- (25) cyano;
- (26) nitro;
- (27) carboxyl;
- (28) carboxylalkyl wherein alkyl is defined in B herein;
- (29) carboxyl-substituted alkyl wherein substituted alkyl is defined in C herein;
- (30) carboxyl-cycloalkyl wherein cycloalkyl is defined in F herein;
- (31) carboxyl-substituted cycloalkyl wherein substituted cycloalkyl is defined in G herein;
- (32) carboxylaryl wherein aryl is defined in J herein;
- (33) carboxyl-substituted aryl wherein substituted aryl is defined in K herein;
- (34) carboxylheteroaryl wherein heteroaryl is defined in L herein;
- (35) carboxyl-substituted heteroaryl wherein substituted heteroaryl is defined in M herein;
- (36) carboxylheterocyclic wherein heterocyclic is defined in N herein;
- (37) carboxyl-substituted heterocyclic wherein substituted heterocyclic is defined in O herein;
- (38) cycloalkyl as defined in F herein;
- (39) substituted cycloalkyl as defined in G herein;
- (40) guanidino as defined in C38 herein;
- (41) guanidinosulfone as defined in C39 herein;
- (42) thiol as defined in X² herein;
- (43) thioalkyl as defined in X herein;
- (44) substituted thioalkyl as defined in C42 herein;
- (45) thioaryl as defined in C43 herein;
- (46) substituted thioaryl as defined in C44 herein;



- (47) thiocycloalkyl as defined in C45 herein;
- (48) substituted thiocycloalkyl as defined in C46 herein;
- (49) thioheteroaryl as defined in C47 herein;
- (50) substituted thioheteroaryl as defined in C48 herein;
- (51) thioheterocyclic as defined in C49 herein;
- (52) substituted thioheterocyclic as defined in C50 herein;
- (53) heteroaryl as defined in L herein;
- (54) substituted heteroaryl as defined in M herein;
- (55) heterocyclic as defined in N herein;
- (56) substituted heterocyclic as defined in O herein;
- (57) cycloalkoxy as defined in E1 herein;
- (58) substituted cycloalkoxy as defined in F1 herein;
- (59) heteroaryloxy as defined in K¹ herein;
- (60) substituted heteroaryloxy as defined in L¹ herein;
- (61) heterocyclyloxy as defined in M¹ herein;
- (62) substituted heterocyclyloxy as defined in N¹ herein;
- (63) oxycarbonylamino as defined in Y1 herein;
- (64) oxythiocarbonylamino as defined in Z¹ herein;
- (65) -OS(O)₂-alkyl wherein alkyl is defined in B herein;
- (66) -OS(O)₂-substituted alkyl wherein substituted alkyl is defined in C herein;
- (67) -OS(O)2-aryl wherein aryl is defined in J herein;
- (68) -OS(O)₂-substituted aryl wherein substituted aryl is defined in K herein;
- (69) -OS(O)₂-heteroaryl wherein heteroaryl is defined in L herein;
- (70) -OS(O)₂-substituted heteroaryl wherein substituted heteroaryl is defined in M herein;
- (71) -OS(O),-heterocyclic wherein heterocyclic is defined in N herein;

- (72) -OS(O)₂-substituted heterocyclic wherein substituted heterocyclic is defined in O herein;
- (73) -OSO₂-NRR where R is:
 - (a) hydrogen; or
 - (b) alkyl as defined in B herein;
- (74) -NRS(O)₂-alkyl wherein alkyl is defined in B herein;
- (75) -NRS(O)₂-substituted alkyl wherein substituted alkyl is defined in C herein;
- (76) -NRS(O)₂-aryl wherein aryl is defined in J herein;
- (77) -NRS(O)₂-substituted aryl wherein substituted aryl is defined in K herein;
- (78) -NRS(O)₂-heteroaryl wherein heteroaryl is defined in L herein;
- (79) -NRS(O)₂-substituted heteroaryl wherein substituted heteroaryl is defined in M herein;
- (80) -NRS(O)₂-heterocyclic wherein heterocyclic is defined in N herein;
- (81) -NRS(O)₂-substituted heterocyclic wherein substituted heterocyclic is defined in O herein;
- (82) -NRS(O)₂-NR-alkyl wherein alkyl is defined in B herein;
- (83) -NRS(O)₂-NR-substituted alkyl wherein substituted alkyl is defined in C herein;
- (84) -NRS(O)₂-NR-aryl wherein aryl is defined in J herein;
- (85) -NRS(O)₂-NR-substituted aryl wherein substituted aryl is defined in K herein;
- (86) -NRS(O)₂-NR-heteroaryl wherein heteroaryl is defined in L herein;
- (87) -NRS(O)₂-NR-substituted heteroaryl wherein substituted heteroaryl is defined in M herein;

- (88) -NRS(O)₂-NR-heterocyclic wherein heterocyclic is defined in N herein;
- (89) -NRS(O)₂-NR-substituted heterocyclic wherein substituted heterocyclic is defined in O herein and where R is:
 - (a) hydrogen; or
 - (b) alkyl as defined in B herein;
- (90) mono- and di-alkylamino wherein alkylamino is defined in I²9 herein;
- (91) mono- and di-(substituted alkyl)amino wherein substituted alkylamino is defined in I²10 herein;
- (92) mono- and di-arylamino wherein aryl is defined in J herein and amino is defined in C7 herein;
- (93) mono- and di-substituted arylamino wherein substituted aryl is defined in K herein and amino is defined in C7 herein;
- (94) mono- and di-heteroarylamino wherein heteroaryl is defined in L herein and amino is defined in C7 herein;
- (95) mono- and di-substituted heteroarylamino wherein substituted heteroaryl is defined in M herein and amino is defined in C7 herein;
- (96) mono- and di-heterocyclic amino wherein heterocyclic is defined in N herein and amino is defined in C7 herein;
- (97) mono- and di-substituted heterocyclic amino wherein substituted heterocyclic is defined in O herein and amino is defined in C7 herein;
- (98) unsymmetric di-substituted amines having different substituents selected from:
 - (a) alkyl as defined in B herein;
 - (b) substituted alkyl as defined in C herein;
 - (c) aryl as defined in J herein;



- (d) substituted aryl as defined in K herein;
- (e) heteroaryl as defined in L herein;
- (f) substituted heteroaryl as defined in M herein;
- (g) heterocyclic as defined in N herein;
- (h) substituted heterocyclic as defined in O herein; and
- (i) substituted alkynyl groups having amino groups blocked by conventional blocking groups such as Boc, Cbz, formyl, and the like or alkynyl/substituted alkynyl groups substituted with:
 - (i) -SO₂-alkyl wherein alkyl is defined in B herein;
 - (ii) -SO₂-substituted alkyl wherein substituted alkyl is defined in C herein;
 - (iii) -SO₂-alkenyl wherein alkenyl is defined in D herein;
 - (iv) -SO₂-substituted alkenyl wherein substituted alkenyl is defined in E herein;
 - (v) -SO₂-cycloalkyl wherein cycloalkyl is defined in F herein;
 - -SO₂-substituted cycloalkyl wherein substituted cycloalkyl is defined in G herein;
 - -SO₂-aryl wherein aryl is defined in Jherein;
 - (viii) -SO₂-substituted aryl wherein substituted aryl is defined in K herein;
 - (ix) -SO₂-heteroaryl wherein heteroaryl is defined in L herein;
 - (x) -SO₂-substituted heteroaryl wherein substituted heteroaryl is defined in M herein;

(xi)	-SO ₂ -heterocyclic wherein heterocyclic
	is defined in N herein;
(xii)	-SO ₂ -substituted heterocyclic wherein
	substituted heterocyclic is defined in O
	herein; and
(xiii)	-SO ₂ NRR where R is:
(a)	hydrogen; or
(b)	alkyl as defined in B herein;

- (J) aryl is an unsaturated aromatic carbocyclic group of from 6 to 14 carbon atoms;
- (K) substituted aryl of from 1 to 3 substituents selected from the group consisting of:
 - (1) hydroxy;
 - (2) acyl as defined in R¹ herein;
 - (3) acylamino as defined in S¹ herein;
 - (4) thiocarbonylamino as defined in B² herein;
 - (5) acyloxy as defined in T¹ herein;
 - (6) alkyl as defined in B herein;
 - (7) substituted alkyl as defined in C herein;
 - (8) alkoxy as defined in V herein;
 - (9) substituted alkoxy as defined in B¹ herein;
 - (10) alkenyl as defined in D herein;
 - (11) substituted alkenyl as defined in E herein;
 - (12) alkynyl as defined in U herein;
 - (13) substituted alkynyl as defined in Q²31 herein;
 - (14) amidino as defined in C8 herein;
 - (15) alkylamidino wherein alkyl is defined in B herein and amidino is defined in C8 herein;
 - (16) thioamidino as defined in A² herein;

- (17) amino as defined in C7 herein;
- (18) aminoacyl as defined in U¹ herein;
- (19) aminocarbonyloxy as defined in X¹ herein;
- (20) aminocarbonylamino as defined in V¹ herein;
- (21) aminothiocarbonylamino as defined in W¹ herein;
- (22) aryl as defined in J herein;
- (23) substituted aryl as defined in K herein;
- (24) aryloxy as defined in I¹ herein;
- (25) substituted aryloxy as defined in J¹ herein;
- (26) cycloalkoxy as defined in E¹ herein;
- (27) substituted cycloalkoxy as defined in F¹ herein;
- (28) heteroaryloxy as defined in K¹ herein;
- (29) substituted heteroaryloxy as defined in L¹ herein;
- (30) heterocyclyloxy as defined in M¹ herein;
- (31) substituted heterocyclyloxy as defined in N¹ herein;
- (32) carboxyl;
- (33) carboxylalkyl wherein alkyl is defined in B herein;
- (34) carboxyl-substituted alkyl wherein substituted alkyl is defined in C herein;
- (35) carboxyl-cycloalkyl wherein cycloalkyl is defined in F herein;
- (36) carboxyl-substituted cycloalkyl wherein substituted cycloalkyl is defined in G herein;
- (37) carboxylaryl wherein aryl is defined in J herein;
- (38) carboxyl-substituted aryl wherein substituted aryl is defined in K herein;
- (39) carboxylheteroaryl wherein heteroaryl is defined in L herein;
- (40) carboxyl-substituted heteroaryl wherein substituted heteroaryl is defined in M herein;
- (41) carboxylheterocyclic wherein heterocyclic is defined in N herein;

- (42) carboxyl-substituted heterocyclic wherein substituted heterocyclic is defined in O herein;
- (43) carboxylamido;
- (44) cyano;
- (45) thiol as defined in X² herein;
- (46) thioalkyl as defined in X herein;
- (47) substituted thioalkyl as defined in C42 herein;
- (48) thioaryl as defined in C43 herein;
- (49) substituted thioaryl as defined in C44 herein;
- (50) thioheteroaryl as defined in C47 herein;
- (51) substituted thioheteroaryl as defined in C48 herein;
- (52) thiocycloalkyl as defined in C45 herein;
- (53) substituted thiocycloalkyl as defined in C46 herein;
- (54) thioheterocyclic as defined in C49 herein;
- (55) substituted thioheterocyclic as defined in C50 herein;
- (56) cycloalkyl as defined in F herein;
- (57) substituted cycloalkyl as defined in G herein;
- (58) guanidino as defined in C38 herein;
- (59) guanidinosulfone as defined in C39 herein;
- (60) halo as defined in Q herein;
- (61) nitro;
- (62) heteroaryl as defined in L herein;
- (63) substituted heteroaryl as defined in M herein;
- (64) heterocyclic as defined in N herein;
- (65) substituted heterocyclic as defined in O herein;
- (66) cycloalkoxy as defined in E1 herein;
- (67) substituted cycloalkoxy as defined in F¹ herein;
- (68) heteroaryloxy as defined in K¹ herein;
- (69) substituted heteroaryloxy as defined in L¹ herein;

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- (70) heterocyclyloxy as defined in M1 herein;
- (71) substituted heterocyclyloxy as defined in N¹ herein;
- (72) oxycarbonylamino as defined in Y1 herein;
- (73) oxythiocarbonylamino as defined in Z^1 herein;
- (74) -S(O)₂-alkyl wherein alkyl is defined in B herein;
- (75) -S(O)₂-substituted alkyl wherein substituted alkyl is defined in C herein;
- (76) -S(O)₂-cycloalkyl wherein cycloalkyl is defined in F herein;
- (77) -S(O)₂-substituted cycloalkyl wherein substituted cycloalkyl is defined in G herein;
- (78) -S(O)₂-alkenyl wherein alkenyl is defined in D herein;
- (79) -S(O)₂-substituted alkenyl wherein substituted alkenyl is defined in E herein;
- (80) -S(O)₂-aryl wherein aryl is defined in J herein;

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- (81) -S(O)₂-substituted aryl wherein substituted aryl is defined in K herein;
- (82) -S(O)₂-heteroaryl wherein heteroaryl is defined in L herein;
- (83) -S(O)₂-substituted heteroaryl wherein substituted aryl is defined in M herein;
- (84) -S(O)₂-heterocyclic wherein heterocyclic is defined in N herein;
- (85) -S(O)₂-substituted heterocyclic wherein substituted heterocyclic is defined in O herein;
- (86) -OS(O)2-alkyl wherein alkyl is defined in B herein;
- (87) -OS(O)₂-substituted alkyl wherein substituted alkyl is defined in C herein;
- (88) -OS(O)₂-aryl wherein aryl is defined in J herein;
- (89) -OS(O)₂-substituted aryl wherein substituted aryl is defined in K herein;
- (90) -OS(O)2-heteroaryl wherein heteroaryl is defined in L herein;

- (91) -OS(O)₂-substituted heteroaryl wherein substituted heteroaryl is defined in M herein;
- (92) -OS(O)2-heterocyclic wherein heterocyclic is defined in N herein;
- (93) -OS(O)₂-substituted heterocyclic wherein substituted heterocyclic is defined in O herein;
- (94) -OSO₂-NRR where R is:
 - (a) hydrogen; or
 - (b) alkyl as defined in B herein;
- (95) -NRS(O)₂-alkyl wherein alkyl is defined in B herein;
- (96) -NRS(O)₂-substituted alkyl wherein substituted alkyl is defined in C herein;
- (97) -NRS(O)₂-aryl wherein aryl is defined in J herein;
- (98) -NRS(O)₂-substituted aryl wherein substituted aryl is defined in K herein;
- (99) -NRS(O)₂-heteroaryl wherein heteroaryl is defined in L herein;
- (100) -NRS(O)₂-substituted heteroaryl wherein substituted heteroaryl is defined in M herein;
- (101) -NRS(O)₂-heterocyclic wherein heterocyclic is defined in N herein;
- -NRS(O)₂-substituted heterocyclic wherein substituted heterocyclic is defined in O herein;
- (103) -NRS(O)₂-NR-alkyl wherein alkyl is defined in B herein;
- -NRS(O)₂-NR-substituted alkyl wherein substituted alkyl is defined in C herein;
- (105) -NRS(O)₂-NR-aryl wherein aryl is defined in J herein;
- -NRS(O)₂-NR-substituted aryl wherein substituted aryl is defined in K herein;
- -NRS(O)₂-NR-heteroaryl wherein heteroaryl is defined in L herein;

(108)	$-NRS(O)_2-NR$ -substituted heteroaryl wherein substituted
	heteroaryl is defined in M herein;
(109)	-NRS(O) ₂ -NR-heterocyclic wherein heterocyclic is
	defined in N herein;
(110)	-NRS(O) ₂ -NR-substituted heterocyclic wherein
	substituted heterocyclic is defined in O herein and where
	R is:
(a)	hydrogen; or
(b)	alkyl as defined in B herein;
(111)	mono- and di-alkylamino wherein alkylamino is defined
	in I ² 9 herein;
(112)	mono- and di-(substituted alkyl)amino wherein
	substituted alkylamino is defined in I210 herein;
(113)	mono- and di-arylamino wherein aryl is defined in J
,	herein and amino is defined in C7 herein;
(114)	mono- and di-substituted arylamino wherein substituted
	aryl is defined in K herein and amino is defined in C7
	herein;
(115)	mono- and di-heteroarylamino wherein heteroaryl is
•	defined in L herein and amino is defined in C7 herein;
(116)	mono- and di-substituted heteroarylamino wherein
	substituted heteroaryl is defined in M herein and amino is
	defined in C7 herein;
(117)	mono- and di-heterocyclic amino wherein heterocyclic is
	defined in N herein and amino is defined in C7 herein;
(118)	mono- and di-substituted heterocyclic amino wherein
	substituted heterocyclic is defined in O herein and amino
	is defined in C7 herein;

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- (119) unsymmetric di-substituted amines having different substituents selected from:
 - (a) alkyl as defined in B herein;
 - (b) substituted alkyl as defined in C herein;
 - (c) aryl as defined in J herein;
 - (d) substituted aryl as defined in K herein;
 - (e) heteroaryl as defined in L herein;
 - (f) substituted heteroaryl as defined in M herein;
 - (g) heterocyclic as defined in N herein;
 - (h) substituted heterocyclic as defined in O herein; and
 - (i) amino groups, as defined in C7 herein, on the substituted aryl blocked by conventional blocking groups such as Boc, Cbz, formyl, and the like or substituted with SO₂NRR where R is:
 - (i) hydrogen; or
 - (ii) alkyl as defined in B herein;
- (L) heteroaryl of from 2 to 10 carbon atoms and 1 to 4 heteroatoms selected from oxygen, nitrogen and sulfer within the ring or oxides thereof;
- (M) substituted heteroaryl of from 2 to 10 carbon atoms and 1 to 4 heteroatoms selected from oxygen, nitrogen and sulfer within the ring or oxides thereof, which are substituted with from 1 to 3 substituents selected from the group consisting of:
 - (1) hydroxy;
 - (2) acyl as defined in R¹ herein;
 - (3) acylamino as defined in S¹ herein;
 - (4) thiocarbonylamino as defined in B² herein;
 - (5) acyloxy as defined in T¹ herein;
 - (6) alkyl as defined in B herein;

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- (7) substituted alkyl as defined in C herein;
- (8) alkoxy as defined in V herein;
- (9) substituted alkoxy as defined in B¹ herein;
- (10) alkenyl as defined in D herein;
- (11) substituted alkenyl as defined in E herein;
- (12) alkynyl as defined in U herein;
- (13) substituted alkynyl as defined in Q²31 herein;
- (14) amidino as defined in C8 herein;
- (15) alkylamidino wherein alkyl is defined in B herein and amidino is defined in C8 herein;
- (16) thioamidino as defined in A² herein;
- (17) amino as defined in C7 herein;
- (18) aminoacyl as defined in U¹ herein;
- (19) aminocarbonyloxy as defined in X¹ herein;
- (20) aminocarbonylamino as defined in V¹ herein;
- (21) aminothiocarbonylamino as defined in W1 herein;
- (22) aryl as defined in J herein;
- (23) substituted aryl as defined in K herein;
- (24) aryloxy as defined in I1 herein;
- (25) substituted aryloxy as defined in J¹ herein;
- (26) cycloalkoxy as defined in E¹ herein;
- (27) substituted cycloalkoxy as defined in F¹ herein;
- (28) heteroaryloxy as defined in K1 herein;
- (29) substituted heteroaryloxy as defined in L¹ herein;
- (30) heterocyclyloxy as defined in M¹ herein;
- (31) substituted heterocyclyloxy as defined in N¹ herein;
- (32) carboxyl;
- (33) carboxylalkyl wherein alkyl is defined in B herein;

- (34) carboxyl-substituted alkyl wherein substituted alkyl is defined in C herein;
- (35) carboxyl-cycloalkyl wherein cycloalkyl is defined in F herein;
- (36) carboxyl-substituted cycloalkyl wherein substituted cycloalkyl is defined in G herein;
- (37) carboxylaryl wherein aryl is defined in J herein;
- (38) carboxyl-substituted aryl wherein substituted aryl is defined in K herein;
- (39) carboxylheteroaryl wherein heteroaryl is defined in L herein;
- (40) carboxyl-substituted heteroaryl wherein substituted heteroaryl is defined in M herein;
- (41) carboxylheterocyclic wherein heterocyclic is defined in N herein;
- (42) carboxyl-substituted heterocyclic wherein substituted heterocyclic is defined in O herein;
- (43) carboxylamido;
- (44) cyano;
- (45) thiol as defined in X2 herein;
- (46) thioalkyl as defined in X herein;
- (47) substituted thioalkyl as defined in C42 herein;
- (48) thioaryl as defined in C43 herein;
- (49) substituted thioaryl as defined in C44 herein;
- (50) thioheteroaryl as defined in C47 herein;
- (51) substituted thioheteroaryl as defined in C48 herein;
- (52) thiocycloalkyl as defined in C45 herein;
- (53) substituted thiocycloalkyl as defined in C46 herein;
- (54) thioheterocyclic as defined in C49 herein;
- (55) substituted thioheterocyclic as defined in C50 herein;
- (56) cycloalkyl as defined in F herein;
- (57) substituted cycloalkyl as defined in G herein;



- (58) guanidino as defined in C38 herein;
- (59) guanidinosulfone as defined in C39 herein;
- (60) halo as defined in Q herein;
- (61) nitro;
- (62) heteroaryl as defined in L herein;
- (63) substituted heteroaryl as defined in M herein;
- (64) heterocyclic as defined in N herein;
- (65) substituted heterocyclic as defined in O herein;
- (66) cycloalkoxy as defined in E¹ herein;
- (67) substituted cycloalkoxy as defined in F¹ herein;
- (68) heteroaryloxy as defined in K¹ herein;
- (69) substituted heteroaryloxy as defined in L¹ herein;
- (70) heterocyclyloxy as defined in M¹ herein;
- (71) substituted heterocyclyloxy as defined in N¹ herein;
- (72) oxycarbonylamino as defined in Y¹ herein;
- (73) oxythiocarbonylamino as defined in Z^1 herein;
- (74) -S(O)₂-alkyl wherein alkyl is defined in B herein;
- (75) -S(O)₂-substituted alkyl wherein substituted alkyl is defined in C herein;
- (76) -S(O)₂-cycloalkyl wherein cycloalkyl is defined in F herein;
- (77) -S(O)₂-substituted cycloalkyl wherein substituted cycloalkyl is defined in G herein;
- (78) -S(O)₂-alkenyl wherein alkenyl is defined in D herein;
- (79) -S(O)₂-substituted alkenyl wherein substituted alkenyl is defined in E herein;
- (80) -S(O)₂-aryl wherein aryl is defined in J herein;
- (81) -S(O)₂-substituted aryl wherein substituted aryl is defined in K herein;
- (82) -S(O)₂-heteroaryl wherein heteroaryl is defined in L herein;



- (83) -S(O)₂-substituted heteroaryl wherein substituted heteroaryl is defined in M herein;
- (84) -S(O)₂-heterocyclic wherein heterocyclic is defined in N herein;
- (85) -S(O)₂-substituted heterocyclic wherein substituted heterocyclic is defined in O herein;
- (86) -OS(O)2-alkyl wherein alkyl is defined in B herein;
- (87) -OS(O)₂-substituted alkyl wherein substituted alkyl is defined in C herein;
- (88) -OS(O)2-aryl wherein aryl is defined in J herein;
- (89) -OS(O)₂-substituted aryl wherein substituted aryl is defined in K herein;
- (90) -OS(O)₂-heteroaryl wherein heteroaryl is defined in L herein;
- (91) -OS(O)₂-substituted heteroaryl wherein substituted heteroaryl is defined in M herein;
- (92) -OS(O)₂-heterocyclic wherein heterocyclic is defined in N herein;
- (93) -OS(O)₂-substituted heterocyclic wherein substituted heterocyclic is defined in O herein;
- (94) -OSO₂-NRR where R is:
 - (a) hydrogen; or
 - (b) alkyl as defined in B herein;
- (95) -NRS(O)₂-alkyl wherein alkyl is defined in B herein;
- (96) -NRS(O)₂-substituted alkyl wherein substituted alkyl is defined in C herein;
- (97) -NRS(O)₂-aryl wherein aryl is defined in J herein;
- (98) -NRS(O)₂-substituted aryl wherein substituted aryl is defined in K herein;
- (99) -NRS(O)₂-heteroaryl wherein heteroaryl is defined in L herein;
- (100) -NRS(O)₂-substituted heteroaryl wherein substituted heteroaryl is defined in M herein;

(101)	-NRS(O) ₂ -heterocyclic wherein heterocyclic is defined in
	N herein;
(102)	-NRS(O) ₂ -substituted heterocyclic wherein substituted
	heterocyclic is defined in O herein;
(103)	-NRS(O) ₂ -NR-alkyl wherein alkyl is defined in B herein;
(104)	-NRS(O) ₂ -NR-substituted alkyl wherein substituted alkyl
	is defined in C herein;
(105)	-NRS(O) ₂ -NR-aryl wherein aryl is defined in J herein;
(106)	-NRS(O) ₂ -NR-substituted aryl wherein substituted aryl is
	defined in K herein;
(107)	-NRS(O) ₂ -NR-heteroaryl wherein heteroaryl is defined in_
	L herein;
(108)	-NRS(O) ₂ -NR-substituted heteroaryl wherein substituted
	heteroaryl is defined in M herein;
(109)	-NRS(O) ₂ -NR-heterocyclic wherein heterocyclic is
	defined in N herein;
(110)	-NRS(O) ₂ -NR-substituted heterocyclic wherein
	substituted heterocyclic is defined in O herein and where
	R is:
(a)	hydrogen; or
(b)	alkyl as defined in B herein;
(111)	mono- and di-alkylamino wherein alkylamino is defined
	in I ² 9 herein;
(112)	mono- and di-(substituted alkyl)amino wherein
	substituted alkylamino is defined in I ² 10 herein;
(113)	mono- and di-arylamino wherein aryl is defined in J
	herein and amino is defined in C7 herein;

(114)	mono- and di-substituted arylamino wherein substituted
	aryl is defined in K herein and amino is defined in C7
	herein;
(115)	mono- and di-heteroarylamino wherein heteroaryl is
	defined in L herein and amino is defined in C7 herein;
(116)	mono- and di-substituted heteroarylamino wherein
	substituted heteroaryl is defined in M herein and amino is
	defined in C7 herein;
(117)	mono- and di-heterocyclic amino wherein heterocyclic is
	defined in N herein and amino is defined in C7 herein;
(118)	mono- and di-substituted heterocyclic amino wherein
	substituted heterocyclic is defined in O herein and amino
	is defined in C7 herein;
(119)	unsymmetric di-substituted amines having different
	substituents selected from:
(a)	alkyl as defined in B herein;
(b)	substituted alkyl as defined in C herein;
(c)	aryl as defined in J herein;
(d)	substituted aryl as defined in K herein;
(e)	heteroaryl as defined in L herein;
(f)	substituted heteroaryl as defined in M herein;
(g)	heterocyclic as defined in N herein;
(h)	substituted heterocyclic as defined in O herein; and
(i)	amino groups, as defined in C7 herein, on the substituted
	aryl blocked by conventional blocking groups such as
	Boc, Cbz, formyl, and the like or substituted with -
	SO ₂ NRR where R is:
	(i) hydrogen; or
•	(ii) alkyl as defined in B herein:

- (N) heterocyclic of from 1 to 10 carbon atoms and from 1 to 4 heteroatoms selected from nitrogen, sulfur or oxygen within the ring, wherein one or more of the rings can be aryl, as defined in J herein, or heteroaryl as defined in L herein; and
- (O) substituted heterocyclic of from 1 to 10 carbon atoms and from 1 to 4 heteroatoms which are substituted with from 1 to 3 substituents selected from the group consisting of:
 - (1) oxo (=0);
 - (2) thioxo (=S);
 - (3) alkoxy as defined in V herein;
 - (4) substituted alkoxy as defined in B¹ herein;
 - (5) acyl as defined in R¹ herein;
 - (6) acylamino as defined in S¹ herein;
 - (7) thiocarbonylamino as defined in B² herein;
 - (8) acyloxy as defined in T¹ herein;
 - (9) amino as defined in C7 herein;
 - (10) amidino as defined in C8 herein;
 - (11) alkylamidino wherein alkyl is defined in B herein and amidino is defined in C8 herein;
 - (12) thioamidino as defined in A² herein;
 - (13) aminoacyl as defined in U¹ herein;
 - (14) aminocarbonylamino as defined in V^1 herein;
 - (15) aminothiocarbonylamino as defined in W1 herein;
 - (16) aminocarbonyloxy as defined in X^1 herein;
 - (17) aryl as defined in J herein;
 - (18) substituted aryl as defined in K herein;
 - (19) aryloxy as defined in I¹ herein;
 - (20) substituted aryloxy as defined in J¹ herein;
 - (21) aryloxyaryl as defined in C19 herein;

- (22) substituted aryloxyaryl as defined in C20 herein;
- (23) halogen as defined in Q herein;
- (24) hydroxyl;
- (25) cyano;
- (26) nitro;
- (27) carboxyl;
- (28) carboxylalkyl wherein alkyl is defined in B herein;
- (29) carboxyl-substituted alkyl wherein substituted alkyl is defined in C herein;
- (30) carboxyl-cycloalkyl wherein cycloalkyl is defined in F herein;
- (31) carboxyl-substituted cycloalkyl wherein substituted cycloalkyl is defined in G herein;
- (32) carboxylaryl wherein aryl is defined in J herein;
- (33) carboxyl-substituted aryl wherein substituted aryl is defined in K herein;
- (34) carboxylheteroaryl wherein heteroaryl is defined in L herein;
- (35) carboxyl-substituted heteroaryl wherein substituted heteroaryl is defined in M herein;
- (36) carboxylheterocyclic wherein heterocyclic is defined in N herein;
- (37) carboxyl-substituted heterocyclic wherein substituted heterocyclic is defined in O herein;
- (38) cycloalkyl as defined in F herein;
- (39) substituted cycloalkyl as defined in G herein;
- (40) guanidino as defined in C38 herein;
- (41) guanidinosulfone as defined in C39 herein;
- (42) thiol as defined in X2 herein;
- (43) thioalkyl as defined in X herein;
- (44) substituted thioalkyl as defined in C42 herein;
- (45) thioaryl as defined in C43 herein;

- (46) substituted thioaryl as defined in C44 herein;
- (47) thiocycloalkyl as defined in C45 herein;
- (48) substituted thiocycloalkyl as defined in C46 herein;
- (49) thioheteroaryl as defined in C47 herein;
- (50) substituted thioheteroaryl as defined in C48 herein;
- (51) thioheterocyclic as defined in C49 herein;
- (52) substituted thioheterocyclic as defined in C50 herein;
- (53) heteroaryl as defined in L herein;
- (54) substituted heteroaryl as defined in M herein;
- (55) heterocyclic as defined in N herein;
- (56) substituted heterocyclic as defined in O herein;
- (57) cycloalkoxy as defined in E¹ herein;
- (58) substituted cycloalkoxy as defined in F¹ herein;
- (59) heteroaryloxy as defined in K¹ herein;
- (60) substituted heteroaryloxy as defined in L¹ herein;
- (61) heterocyclyloxy as defined in M¹ herein;
- (62) substituted heterocyclyloxy as defined in N¹ herein;
- (63) oxycarbonylamino as defined in Y¹ herein;
- (64) oxythiocarbonylamino as defined in Z¹ herein;
- (65) -OS(O)2-alkyl wherein alkyl is defined in B herein;
- (66) -OS(O)₂-substituted alkyl wherein substituted alkyl is defined in C herein;
- (67) -OS(O)₂-aryl wherein aryl is defined in J herein;
- (68) -OS(O)₂-substituted aryl wherein substituted aryl is defined in K herein;
- (69) -OS(O)₂-heteroaryl wherein heteroaryl is defined in L herein;
- (70) -OS(O)₂-substituted heteroaryl wherein substituted heteroaryl is defined in M herein;
- (71) -OS(O)₂-heterocyclic wherein heterocyclic is defined in N herein;

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- (72) -OS(O)₂-substituted heterocyclic wherein substituted heterocyclic is defined in O herein;
- (73) -OSO₂-NRR where R is:
 - (a) hydrogen; or
 - (b) alkyl as defined in B herein;
- (74) -NRS(O)₂-alkyl wherein alkyl is defined in B herein;
- (75) -NRS(O)₂-substituted alkyl wherein substituted alkyl is defined in C herein;
- (76) -NRS(O)₂-aryl wherein aryl is defined in J herein;
- (77) -NRS(O)₂-substituted aryl wherein substituted aryl is defined in K herein;
- (78) -NRS(O)₂-heteroaryl wherein heteroaryl is defined in L herein;
- (79) -NRS(O)₂-substituted heteroaryl wherein substituted heteroaryl is defined in M herein;
- (80) -NRS(O)₂-heterocyclic wherein heterocyclic is defined in N herein;
- (81) -NRS(O)₂-substituted heterocyclic wherein substituted heterocyclic is defined in O herein;
- (82) -NRS(O)₂-NR-alkyl wherein alkyl is defined in B herein;
- (83) -NRS(O)₂-NR-substituted alkyl wherein substituted alkyl is defined in C herein;
- (84) -NRS(O)₂-NR-aryl wherein aryl is defined in J herein;
- (85) -NRS(O)₂-NR-substituted aryl wherein substituted aryl is defined in K herein;
- (86) -NRS(O)₂-NR-heteroaryl wherein heteroaryl is defined in L herein;
- (87) -NRS(O)₂-NR-substituted heteroaryl wherein substituted heteroaryl is defined in M herein;

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- (88) -NRS(O)₂-NR-heterocyclic wherein heterocyclic is defined in N herein;
- (89) -NRS(O)₂-NR-substituted heterocyclic wherein substituted heterocyclic is defined in O herein and where R is:
 - (a) hydrogen; or
 - (b) alkyl as defined in B herein;
- (90) mono- and di-alkylamino wherein alkylamino is defined in I²9 herein;
- (91) mono- and di-(substituted alkyl)amino wherein substituted alkylamino is defined in I²10 herein;
- (92) mono- and di-arylamino wherein aryl is defined in J herein and amino is defined in C7 herein;
- (93) mono- and di-substituted arylamino wherein substituted aryl is defined in K herein and amino is defined in C7 herein;
- (94) mono- and di-heteroarylamino wherein heteroaryl is defined in L herein and amino is defined in C7 herein;
- (95) mono- and di-substituted heteroarylamino wherein substituted heteroaryl is defined in M herein and amino is defined in C7 herein;
- (96) mono- and di-heterocyclic amino wherein heterocyclic is defined in N herein and amino is defined in C7 herein;
- (97) mono- and di-substituted heterocyclic amino wherein substituted heterocyclic is defined in O herein and amino is defined in C7 herein;
- (98) unsymmetric di-substituted amines having different substituents selected from:
 - (a) alkyl as defined in B herein;
 - (b) substituted alkyl as defined in C herein;
 - (c) aryl as defined in J herein;

- (d) substituted aryl as defined in K herein;
- (e) heteroaryl as defined in L herein;
- (f) substituted heteroaryl as defined in M herein;
- (g) heterocyclic as defined in N herein;
- (h) substituted heterocyclic as defined in O herein; and
- (i) substituted alkynyl groups, wherein substituted alkynyl is defined in Q²31 herein, having amino groups blocked by conventional blocking groups such as Boc, Cbz, formyl, and the like or alkynyl/ groups substituted with:
 - (i) -SO₂-alkyl wherein alkyl is defined in B herein;
 - (ii) -SO₂-substituted alkyl wherein substituted alkyl is defined in C herein;
 - (iii) -SO₂-alkenyl wherein alkenyl is defined in D herein;
 - (iv) -SO₂-substituted alkenyl wherein substituted alkenyl is defined in E herein;
 - (v) -SO₂-cycloalkyl wherein cycloalkyl is defined in F herein;
 - -SO₂-substituted cycloalkyl wherein substituted cycloalkyl is defined in G
 herein;
 - (vii) -SO₂-aryl wherein aryl is defined in J herein;
 - (viii) -SO₂-substituted aryl wherein substituted aryl is defined in K herein;
 - (ix) -SO₂-heteroaryl wherein heteroaryl is defined in L herein;
 - (x) -SO₂-substituted heteroaryl wherein substituted heteroaryl is defined in M herein;

(xi)	-SO ₂ -heterocyclic wherein heterocyclic
	is defined in N herein;
(xii)	-SO ₂ -substituted heterocyclic wherein

substituted heterocyclic is defined in O herein; and

(xiii) -SO₂NRR where R is:

(a) hydrogen; or

(b) alkyl as defined in B herein;

R³ and R^{3a} are independently selected from the group consisting of:

- (P) hydrogen;
- (Q) halogen or halo referring to fluoro, chloro, bromo and iodo;
- (R) alkyl as defined in B above;
- (S) substituted alkyl as defined in C above;
- (T) alkenyl as defined in D herein;
- (U) alkynyl of from 2 to 10 carbon atoms and from 1-2 sites of alkynyl unsaturation;
- (V) alkoxy having the formula "alkyl-O-";
- (W) haloalkoxy wherein halo is defined in Q herein and alkoxy is defined in V herein;
- (X) thioalkyl having the formula "-S-alkyl"; or
- (Y) -(Alk^b)_mR^b in which Alk^b is a C_{1.3}alkylene chain, m is 0 or 1 and R^b is:
 - (1) hydroxy;
 - (2) thiol as defined in X² herein;
 - (3) nitro;
 - (4) cyano;
 - (5) carboxy;
 - (6) -CO₂R^c wherein R^c is alkyl as defined in B herein;
 - (7) $-SO_3H$;
 - (8) -SOR^c wherein R^c is alkyl as defined in B herein;

- (9) -SO₂R^c wherein R^c is alkyl as defined in B herein;
- (10) -SO₃R^c wherein R^c is alkyl as defined in B herein;
- (11) -OCO₂R^c wherein R^c is alkyl as defined in B herein;
- (12) -C(O)H;
- (13) -COR^c wherein R^c is alkyl as defined in B herein;
- (14) -OCOR^c wherein R^c is alkyl as defined in B herein;
- (15) -CSR^c wherein R^c is alkyl as defined in B herein;
- (16) -Nr^dR^e wherein R^d and R^e are independently hydrogen, alkyl as defined in B herein, or substituted alkyl as defined in C herein;
- (17) -CONR^dR^e wherein R^d and R^e are independently hydrogen, alkyl as defined in B herein, or substituted alkyl as defined in C herein;
- (18) -OCONR^dR^e wherein R^d and R^e are independently hydrogen, alkyl as defined in B herein, or substituted alkyl as defined in C herein;
- (19) -NrdCORe wherein Rd and Re are independently hydrogen, alkyl as defined in B herein, or substituted alkyl as defined in C herein;
- (20) -CSNR^dR^e wherein R^d and R^e are independently hydrogen, alkyl as defined in B herein, or substituted alkyl as defined in C herein;
- (21) -Nr^dCSR^e wherein R^d and R^e are independently hydrogen, alkyl as defined in B herein, or substituted alkyl as defined in C herein;
- (22) -SO₂NR^dR^e wherein R^d and R^e are independently hydrogen, alkyl as defined in B herein, or substituted alkyl as defined in C herein;
- (23) -Nr^dSO₂R^e wherein R^d and R^e are independently hydrogen, alkyl as defined in B herein, or substituted alkyl as defined in C herein;
- (24) -Nr^dCONR^eR^f wherein R^d and R^e are independently hydrogen, alkyl as defined in B herein, or substituted alkyl as defined in C herein; and where R^f is hydrogen alkyl as defined in B herein, or substituted alkyl as defined in C herein; or



(25) -Nr^dSO₂NR^eR^f wherein R^d and R^e are independently hydrogen, alkyl as defined in B herein, or substituted alkyl as defined in C herein; and where R^f is hydrogen, alkyl as defined in B herein, or substituted alkyl as defined in C herein.

X is selected from the group consisting of:

- (Z) hydroxyl;
- (A1) alkoxy as defined in V herein;
- (B¹) substituted alkoxy having the formula "substituted alkyl-O-";
- (C1) alkenoxy having the formula "alkenyl-O-";
- (D1) substituted alkenoxy having the formula "substituted alkenyl-O-";
- (E¹) cycloalkoxy having the formula "-O-cycloalkyl";
- (F¹) substituted cycloalkoxy having the formula "-O-substituted cycloalkyl";
- (G¹) cycloalkenoxy having the formula "-O-cycloalkenyl";
- (H¹) substituted cycloalkenoxy having the formula "-O-substituted cycloalkenyl";
- (I¹) aryloxy having the formula "aryl-O-";
- (J¹) substituted aryloxy having the formula "substituted aryl-O-;
- (K¹) heteroaryloxy having the formula "-O-heteroaryl";
- (L¹) substituted heteroaryloxy having the formula "-O-substituted heteroaryl";
- (M¹) heterocyclyloxy having the formula "-O-heterocyclic";
- (N¹) substituted heterocyclyloxy having the formula "-O-substituted heterocyclic"; and
- (O¹) -NR"R" where each R" is independently selected from the group consisting of:
 - (1) hydrogen;
 - (2) alkyl as defined in B herein;
 - (3) substituted alkyl as defined in C herein;



- (4) alkenyl as defined in D herein;
- (5) substituted alkenyl as defined in E herein;
- (6) cycloalkyl as defined in F herein;
- (7) substituted cycloalkyl as defined in G herein;
- (8) aryl as defined in J herein;
- (9) substituted aryl as defined in K herein;
- (10) heteroaryl as defined in L herein;
- (11) substituted heteroaryl as defined in M herein;
- (12) heterocyclic as defined in N herein; and
- (13) substituted heterocyclic as defined in O herein;

R^{2a} is either:

- (i) an -Ar¹-R⁹ group where Ar¹ is:
 - (P1) aryl as defined in J herein; or
 - (Q1) heteroaryl, as defined in L herein, optionally substituted with one or two substituents selected from the group consisting of:
 - (1) hydroxy;
 - (2) acyl as defined in R¹ herein;
 - (3) acylamino as defined in S¹ herein;
 - (4) aminoacyl as defined in U¹ herein;
 - (5) acyloxy as defined in T^1 herein;
 - (6) alkyl as defined in B herein;
 - (7) súbstituted alkyl as defined in C herein;
 - (8) alkoxy as defined in V herein;
 - (9) substituted alkoxy as defined in B¹ herein;
 - (10) amino as defined in C7 herein;
 - (11) aminoacyl as defined in U¹ herein;
 - (12) aminocarbonyloxy as defined in X¹ herein;
 - (13) carboxyl;
 - (14) carboxylalkyl wherein alkyl is defined in B herein;

- (15) carboxylamido;
- (16) cyano;
- (17) thiol as defined in X² herein;
- (18) thioalkyl as defined in X herein;
- (19) substituted thioalkyl as defined in C42 herein;
- (20) halo as defined in Q herein;
- (21) nitro;

provided that said acyl, acylamino, acyloxy, substituted alkyl, substituted alkoxy and substituted thioalkyl do not carry an aryl, substituted aryl, heteroaryl or substituted heteroaryl group; and

R⁹ is selected from the group consisting of:

- acyl selected from H-C(O)-, alkyl-C(O)-, substituted alkyl-C(O)-, (R^1) alkenyl-C(O)-, substituted alkenyl-C(O)-, alkynyl-C(O)-, substituted alkynyl-C(O)- cycloalkyl-C(O)-, substituted cycloalkyl-C(O)-, aryl-C(O)-, substituted aryl-C(O)-, heteroaryl-C(O)-, substituted heteroaryl-C(O), heterocyclic-C(O)-, and substituted heterocyclic-C(O)-, wherein alkyl is defined in B herein; wherein substituted alkyl is defined in C herein; wherein alkenyl is defined in D herein; wherein substituted alkenyl is defined in E herein; wherein alkynyl is defined in U herein; wherein substituted alkynyl is defined in Q²31 herein; wherein cycloalkyl is defined in F herein; wherein substituted cycloalkyl is defined in G herein; wherein aryl is defined in J herein; wherein substituted aryl is defined in K herein; wherein heteroaryl is defined in L herein; wherein substituted heteroaryl is defined in M herein; wherein heterocyclic is defined in N herein; and wherein substituted heterocyclic is defined in O herein;
- (S¹) acylamino selected from the group -C(O)NRR where each R is independently selected from the group consisting of:
 - (1) hydrogen;

- (2) alkyl as defined in B herein;
- (3) substituted alkyl as defined in C herein;
- (4) alkenyl as defined in D herein;
- (5) substituted alkenyl as defined in E herein;
- (6) alkynyl as defined in U herein;
- (7) substituted alkynyl as defined in Q²31 herein;
- (8) aryl as defined in J herein;
- (9) substituted aryl as defined in K herein;
- (10) cycloalkyl as defined in F herein;
- (11) substituted cycloalkyl as defined in G herein;
- (12) heteroaryl as defined in L herein;
- (13) substituted heteroaryl as defined in M herein;
- (14) heterocyclic as defined in N herein;
- (15) substituted heterocyclic as defined in O herein; and

where each R is joined to form together with the nitrogen atom a heterocyclic or substituted heterocyclic ring wherein alkyl, substituted alkyl, alkenyl, substituted alkynyl, substituted alkynyl, substituted cycloalkyl, aryl, substituted aryl, heteroaryl, substituted heteroaryl, heterocyclic and substituted heterocyclic are as defined herein.

(T¹) acyloxy selected from the groups alkyl-C(O)O-, substituted alkyl-C(O)O-, alkenyl-C(O)O-, substituted alkenyl-C(O)O-, alkynyl-C(O)O-, substituted alkynyl-C(O)O-, aryl-C(O)O-, substituted aryl-C(O)O-, cycloalkyl-C(O)O-, substituted cycloalkyl-C(O)O-, heteroaryl-C(O)O-, substituted heteroaryl-C(O)O-, heterocyclic-C(O)O-, and substituted heterocyclic-C(O)O-wherein alkyl is defined in B herein; wherein substituted alkyl is defined in C herein; wherein alkenyl is defined in D herein; wherein substituted alkenyl is defined in E herein; wherein alkynyl is defined in U herein; wherein substituted alkynyl is defined in Q²31 herein; wherein cycloalkyl is defined in F herein; wherein

substituted cycloalkyl is defined in G herein; wherein aryl is defined in J herein; wherein substituted aryl is defined in K herein; wherein heteroaryl is defined in L herein; wherein substituted heteroaryl is defined in M herein; wherein heterocyclic is defined in N herein; and wherein substituted heterocyclic is defined in O herein;

- (U^1) aminoacyl having the formula -NRC(O)alkyl, -NRC(O)substituted alkyl, -NRC(O)cycloalkyl, -NRC(O)substituted cycloalkyl, -NRC(O)alkenyl, -NRC(O)substituted alkenyl, -NRC(O)alkynyl, -NRC(O)substituted alkynyl, -NRC(O)aryl, -NRC(O)substituted aryl, -NRC(O)heteroaryl, -NRC(O) substituted heteroaryl, -NRC(O)heterocyclic, and -NRC(O)substituted heterocyclic where R is hydrogen or alkyl and wherein alkyl is defined in B herein; wherein substituted alkyl is defined in C herein; wherein alkenyl is defined in D herein; wherein substituted alkenyl is defined in E herein; wherein alkynyl is defined in U herein; wherein substituted alkynyl is defined in Q231 herein; wherein cycloalkyl is defined in F herein; wherein substituted cycloalkyl is defined in G herein; wherein aryl is defined in J herein; wherein substituted aryl is defined in K herein; wherein heteroaryl is defined in L herein; wherein substituted heteroaryl is defined in M herein; wherein heterocyclic is defined in N herein; and wherein substituted heterocyclic is defined in O herein;
- (V¹) aminocarbonylamino formula -NRC(O)NRR, -NRC(O)NR-alkyl, -NRC(O)NR-substituted alkyl, -NRC(O)NR-alkenyl, -NRC(O)NR-substituted alkenyl, -NRC(O)NR-alkynyl, -NRC(O)NR-substituted alkynyl, -NRC(O)NR-aryl, -NRC(O)NR-substituted aryl, -NRC(O)NR-cycloalkyl, -NRC(O)NR-substituted cycloalkyl, -NRC(O)NR-heteroaryl, and -NRC(O)NR-substituted heteroaryl, -NRC(O)NR-heterocyclic, and -NRC(O)NR-substituted heterocyclic where each R is independently hydrogen, alkyl or where each R is

joined to form together with the nitrogen atom a heterocyclic or substituted heterocyclic ring as well as where one of the amino groups is blocked by conventional blocking groups such as Boc, Cbz, formyl, and the like and wherein alkyl is defined in B herein; wherein substituted alkyl is defined in C herein; wherein alkenyl is defined in D herein; wherein substituted alkenyl is defined in E herein; wherein alkynyl is defined in U herein; wherein substituted alkynyl is defined in Q²31 herein; wherein cycloalkyl is defined in F herein; wherein substituted cycloalkyl is defined in G herein; wherein aryl is defined in J herein; wherein substituted aryl is defined in K herein; wherein heteroaryl is defined in L herein; wherein substituted heteroaryl is defined in N herein; and wherein substituted heterocyclic is defined in O herein;

 (W^1) aminothiocarbonylamino having the formula -NRC(S)NRR, -NRC(S)NR-alkyl, -NRC(S)NR-substituted alkyl, -NRC(S)NR-alkenyl, -NRC(S)NR-substituted alkenyl, -NRC(S)NR-alkynyl, -NRC(S)NRsubstituted alkynyl, -NRC(S)NR-aryl, -NRC(S)NR-substituted aryl, -NRC(S)NR-cycloalkyl, -NRC(S)NR-substituted cycloalkyl, -NRC(S)NR-heteroaryl, and -NRC(S)NR-substituted heteroaryl, -NRC(S)NR-heterocyclic, and -NRC(S)NR-substituted heterocyclic where each R is independently hydrogen, alkyl or where each R is joined to form together with the nitrogen atom a heterocyclic or substituted heterocyclic ring as well as where one of the amino groups is blocked by conventional blocking groups such as Boc, Cbz, formyl, and the like and wherein alkyl is defined in B herein; wherein substituted alkyl is defined in C herein; wherein alkenyl is defined in D herein; wherein substituted alkenyl is defined in E herein; wherein alkynyl is defined in U herein; wherein substituted alkynyl is defined in Q²31 herein; wherein cycloalkyl is defined in F herein; wherein

substituted cycloalkyl is defined in G herein; wherein aryl is defined in J herein; wherein substituted aryl is defined in K herein; wherein heteroaryl is defined in L herein; wherein substituted heteroaryl is defined in M herein; wherein heterocyclic is defined in N herein; and wherein substituted heterocyclic is defined in O herein;

- aminocarbonyloxy having the formula -NRC(O)O-alkyl, -NRC(O)O- (X^1) substituted alkyl, -NRC(O)O-alkenyl, -NRC(O)O-substituted alkenyl, -NRC(O)O-alkynyl, -NRC(O)O-substituted alkynyl, -NRC(O)Ocycloalkyl, -NRC(O)O-substituted cycloalkyl, -NRC(O)O-aryl, -NRC(O)O-substituted aryl, -NRC(O)O-heteroaryl, -NRC(O)Osubstituted heteroaryl, -NRC(O)O-heterocyclic, and -NRC(O)Osubstituted heterocyclic where R is hydrogen or alkyl and wherein alkyl is defined in B herein; wherein substituted alkyl is defined in C herein; wherein alkenyl is defined in D herein; wherein substituted alkenyl is defined in E herein; wherein alkynyl is defined in U herein; wherein substituted alkynyl is defined in Q²31 herein; wherein cycloalkyl is defined in F herein; wherein substituted cycloalkyl is defined in G herein; wherein aryl is defined in J herein; wherein substituted aryl is defined in K herein; wherein heteroaryl is defined in L herein; wherein substituted heteroaryl is defined in M herein; wherein heterocyclic is defined in N herein; and wherein substituted heterocyclic is defined in O herein;
- (Y¹) oxycarbonylamino having the formula -OC(O)NH₂, -OC(O)NRR,-OC(O)NR-alkyl, -OC(O)NR-substituted alkyl, -OC(O)NR-alkenyl, -OC(O)NR-substituted alkenyl, -OC(O)NR-alkynyl, -OC(O)NR-substituted alkynyl, -OC(O)NR-cycloalkyl, -OC(O)NR-substituted cycloalkyl, -OC(O)NR-aryl, -OC(O)NR-substituted aryl, -OC(O)NR-heteroaryl, -OC(O)NR-substituted heteroaryl, -OC(O)NR-heterocyclic, and -OC(O)NR-substituted heterocyclic where R is hydrogen, alkyl or

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where each R is joined to form, together with the nitrogen atom a heterocyclic or substituted heterocyclic ring and wherein alkyl is defined in B herein; wherein substituted alkyl is defined in C herein; wherein alkenyl is defined in D herein; wherein substituted alkenyl is defined in E herein; wherein alkynyl is defined in U herein; wherein substituted alkynyl is defined in Q²31 herein; wherein cycloalkyl is defined in F herein; wherein substituted cycloalkyl is defined in G herein; wherein aryl is defined in J herein; wherein substituted aryl is defined in K herein; wherein heteroaryl is defined in L herein; wherein substituted heteroaryl is defined in M herein; wherein heterocyclic is defined in N herein; and wherein substituted heterocyclic is defined in O herein;

oxythiocarbonylamino having the formula -OC(S)NH2,-OC(S)NRR, - (Z^1) OC(S)NR-alkyl, -OC(S)NR-substituted alkyl, -OC(S)NR-alkenyl, -OC(S)NR-substituted alkenyl, -OC(S)NR-alkynyl, -OC(S)NRsubstituted alkynyl, -OC(S)NR-cycloalkyl, -OC(S)NR-substituted cycloalkyl, -OC(S)NR-aryl, -OC(S)NR-substituted aryl, -OC(S)NRheteroaryl, -OC(S)NR-substituted heteroaryl, -OC(S)NR-heterocyclic, and -OC(S)NR-substituted heterocyclic where R is hydrogen, alkyl or where each R is joined to form together with the nitrogen atom a heterocyclic or substituted heterocyclic ring and wherein alkyl is defined in B herein; wherein substituted alkyl is defined in C herein; wherein alkenyl is defined in D herein; wherein substituted alkenyl is defined in E herein; wherein alkynyl is defined in U herein; wherein substituted alkynyl is defined in Q²31 herein; wherein cycloalkyl is defined in F herein; wherein substituted cycloalkyl is defined in G herein; wherein aryl is defined in J herein; wherein substituted aryl is defined in K herein; wherein heteroaryl is defined in L herein; wherein substituted heteroaryl is defined in M herein; wherein heterocyclic is

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defined in N herein; and wherein substituted heterocyclic is defined in O herein;

- (A²) thioamidino having the formula "RSC(=NH)-";
- (B²) thiocarbonylamino selected from the group -C(S)NRR where each R is independently selected from the group consisting of:
 - (1) hydrogen;
 - (2) alkyl as defined in B herein;
 - (3) substituted alkyl as defined in C herein;
 - (4) alkenyl as defined in D herein;
 - (5) substituted alkenyl as defined in E herein;
 - (6) alkynyl as defined in U herein;
 - (7) substituted alkynyl as defined in Q²31 herein;
 - (8) aryl as defined in J herein;
 - (9) substituted aryl as defined in K herein;
 - (10) cycloalkyl as defined in F herein;
 - (11) substituted cycloalkyl as defined in G herein;
 - (12) heteroaryl as defined in L herein;
 - (13) substituted heteroaryl as defined in M herein;
 - (14) heterocyclic as defined in N herein;
 - (15) substituted heterocyclic as defined in O herein; and

where each R is joined to form, together with the nitrogen atom a heterocyclic or substituted heterocyclic ring wherein alkyl, substituted alkyl, alkenyl, substituted alkynyl, substituted alkynyl, substituted cycloalkyl, aryl, substituted aryl, heteroaryl, substituted heteroaryl, heterocyclic, and substituted heterocyclic are as defined herein;

(C²) aminosulfonylamino having the formula -NRSO₂NRR, -NRSO₂NR-alkyl, -NRSO₂NR-substituted alkyl, -NRSO₂NR-alkenyl, -NRSO₂NR-substituted substituted alkenyl, -NRSO₂NR-alkynyl, -NRSO₂NR-substituted alkynyl, -NRSO₂NR-aryl, -NRSO₂NR-substituted aryl, -NRSO₂NR-

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cycloalkyl, -NRSO₂NR-substituted cycloalkyl, -NRSO₂NR-heteroaryl, and -NRSO₂NR-substituted heteroaryl, -NRSO₂NR-heterocyclic, and -NRSO₂NR-substituted heterocyclic, where each R is independently hydrogen, alkyl or where each R is joined to form together with the nitrogen atom a heterocyclic or substituted heterocyclic ring as well as where one of the amino groups is blocked by conventional blocking groups such as Boc, Cbz, formyl, and the like and wherein alkyl is defined in B herein; wherein substituted alkyl is defined in C herein; wherein alkenyl is defined in D herein; wherein substituted alkenyl is defined in E herein; wherein alkynyl is defined in U herein; wherein substituted alkynyl is defined in Q²31 herein; wherein cycloalkyl is defined in F herein; wherein substituted cycloalkyl is defined in G herein; wherein aryl is defined in J herein; wherein substituted aryl is defined in K herein; wherein heteroaryl is defined in L herein; wherein substituted heteroaryl is defined in M herein; wherein heterocyclic is defined in N herein; and wherein substituted heterocyclic is defined in O herein;

(D²) aminosulfonyloxy having the formula -NRSO₂O-alkyl, -NRSO₂O-substituted alkyl, -NRSO₂O-alkenyl, -NRSO₂O-substituted alkenyl, -NRSO₂O-alkynyl, -NRSO₂O-substituted alkynyl, -NRSO₂O-cycloalkyl, -NRSO₂O-substituted cycloalkyl, -NRSO₂O-aryl, -NRSO₂O-substituted aryl, -NRSO₂O-heteroaryl, -NRSO₂O-substituted heteroaryl, -NRSO₂O-heterocyclic, and -NRSO₂O-substituted heterocyclic where R is hydrogen or alkyl and wherein alkyl is defined in B herein; wherein substituted alkyl is defined in C herein; wherein alkenyl is defined in D herein; wherein substituted alkenyl is defined in E herein; wherein alkynyl is defined in U herein; wherein substituted alkynyl is defined in F herein; wherein substituted cycloalkyl is defined in G herein; wherein

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aryl is defined in J herein; wherein substituted aryl is defined in K herein; wherein heteroaryl is defined in L herein; wherein substituted heteroaryl is defined in M herein; wherein heterocyclic is defined in N herein; and wherein substituted heterocyclic is defined in O herein;

- herein; and wherein substituted heterocyclic is defined in O herein; aminosulfonyl having the formula -NRSO2alkyl, -NRSO2substituted (E^2) alkyl, -NRSO2cycloalkyl, -NRSO2substituted cycloalkyl,-NRSO₂alkenyl, -NRSO₂substituted alkenyl, -NRSO₂alkynyl, -NRSO₂substituted alkynyl, -NRSO₂aryl, -NRSO₂substituted aryl, -NRSO₂heteroaryl, -NRSO₂substituted heteroaryl, -NRSO₂heterocyclic, and -NRSO₂ substituted heterocyclic where R is hydrogen or alkyl and wherein alkyl is defined in B herein; wherein substituted alkyl is defined in C herein; wherein alkenyl is defined in D herein; wherein substituted alkenyl is defined in E herein; wherein alkynyl is defined in U herein; wherein substituted alkynyl is defined in Q²31 herein; wherein cycloalkyl is defined in F herein; wherein substituted cycloalkyl is defined in G herein; wherein aryl is defined in J herein; wherein substituted aryl is defined in K herein; wherein heteroaryl is defined in L herein; wherein substituted heteroaryl is defined in M herein; wherein heterocyclic is defined in N herein; and wherein substituted heterocyclic is defined in O herein;
- (F²) oxysulfonylamino having the formula -OSO₂NH₂, -OSO₂NRR,OSO₂NR-alkyl, -OSO₂NR-substituted alkyl, -OSO₂NR-alkenyl, OSO₂NR-substituted alkenyl, -OSO₂NR-alkynyl, -OSO₂NR-substituted alkynyl, -OSO₂NR-cycloalkyl, -OSO₂NR-substituted cycloalkyl, OSO₂NR-aryl, -OSO₂NR-substituted aryl, -OSO₂NR-heteroaryl, OSO₂NR-substituted heteroaryl, -OSO₂NR-heterocyclic, and OSO₂NR-substituted heterocyclic where R is hydrogen, alkyl or where each R is joined to form, together with the nitrogen atom a heterocyclic or substituted heterocyclic ring and wherein alkyl is defined in B

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E herein; wherein alkynyl is defined in U herein; wherein substituted alkynyl is defined in Q231 herein; wherein cycloalkyl is defined in F herein; wherein substituted cycloalkyl is defined in G herein; wherein aryl is defined in J herein; wherein substituted aryl is defined in K herein; wherein heteroaryl is defined in L herein; wherein substituted heteroaryl is defined in M herein; wherein heterocyclic is defined in N herein; and wherein substituted heterocyclic is defined in O herein; and oxysulfonyl selected from the groups alkyl-SO₂O-, substituted alkyl-SO₂O-, alkenyl-SO₂O-, substituted alkenyl-SO₂O-, alkynyl-SO₂O-, substituted alkynyl-SO₂O-, aryl-SO₂O-, substituted aryl-SO₂O-, cycloalkyl-SO₂O-, substituted cycloalkyl-SO₂O-, heteroaryl-SO₂O-, substituted heteroaryl-SO₂O-, heterocyclic-SO₂O-, and substituted heterocyclic-SO₂O- wherein alkyl is defined in B herein; wherein substituted alkyl is defined in C herein; wherein alkenyl is defined in D herein: wherein substituted alkenyl is defined in E herein; wherein alkynyl is defined in U herein; wherein substituted alkynyl is defined in O²31 herein; wherein cycloalkyl is defined in F herein; wherein substituted cycloalkyl is defined in G herein; wherein aryl is defined in J herein; wherein substituted aryl is defined in K herein; wherein heteroaryl is defined in L herein; wherein substituted heteroaryl is defined in M herein; wherein heterocyclic is defined in N herein; and wherein substituted heterocyclic is defined in O herein;

herein; wherein substituted alkyl is defined in C herein; wherein

alkenyl is defined in D herein; wherein substituted alkenyl is defined in

provided that when R⁹ is acylamino or acyloxy then the acylamino or acyloxy group does not carry an aryl, substituted aryl, heteroaryl or substituted heteroaryl group; or

(ii) a group of formula (a) or (b):

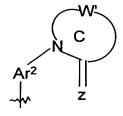
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 (G^2)

wherein:

Ar² is an:

 (H^2) aryl as defined in J or



- (I^2) heteroaryl group optionally substituted, in addition to ring B or C, with one or two substituent(s) selected from the group consisting of:
 - hydrogen; (1)

herein; or

- halogen as defined in Q herein; (2)
- (3) hydroxy;
- alkoxy as defined in V herein; **(4)**
- substituted alkoxy as defined in B1 herein; (5)

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- acyloxy as defined in T¹ herein; (6)
- (7) substituted acyloxy;
- amino as defined in C7 herein; (8)
- alkylamino having the formula -NHR wherein R is alkyl as (9) defined in B herein;
- (10) substituted alkylamino having the formula -NHR wherein R is substituted alkyl as defined in C herein;
- (11) dialkylamino having the formula -NRR wherein each R is alkyl as defined in B herein;
- (12) substituted dialkylamino having the formula -NRR wherein each R is substituted alkyl as defined in C herein;
- (13) acylamino as defined in S¹ herein;
- (14) substituted acylamino;
- (15) N-acyl-N-alkylamino wherein acyl is defined in R¹ herein and alkylamino is defined in I²9 herein;

- (16) substituted N-acyl-N-alkylamino wherein acyl is defined in R¹ herein and substituted alkylamino is defined in I²10 herein;
- (17) (alkylsulfonyl)amino wherein alkylsulfonyl is defined in C³ herein and amino is defined in C7 herein;
- (18) substituted (alkylsulfonyl)amino wherein substituted alkylsulfonyl is defined in D³ herein and amino is defined in C7 herein;
- (19) N-(alkylsulfonyl)-N-alkylamino wherein alkylsulfonyl is defined in C³ herein and alkylamino is defined in I²9 herein;
- (20) substituted N-(alkylsulfonyl)-N-alkylamino wherein substituted alkylsulfonyl is defined in D³ herein and substituted alkylamino is defined in I²10 herein;
- (21) alkyl as defined in B herein;
- (22) substituted alkyl as defined in C herein;
- (23) cycloalkyl as defined in F herein;
- (24) substituted cycloalkyl as defined in G herein;
- (25) alkenyl as defined in D herein;
- (26) substituted alkenyl as defined in E herein;
- (27) cycloalkenyl as defined in H herein;
- (28) substituted cycloalkenyl as defined in I herein;
- (29) alkynyl as defined in U herein;
- (30) substituted alkynyl as defined in Q231 herein;
- (31) cyano;
- (32) acyl as defined in R¹ herein;
- (33) substituted acyl;
- (34) carboxy;
- (35) substituted carboxy;
- (36) thiol as defined in X2 herein;
- (37) alkylthio as defined in X herein;

- (38) substituted alkylthio as defined in Z^2 herein;
- (39) alkylsulfoxy as defined in A³ herein;
- (40) substituted alkylsulfoxy as defined in B³ herein;
- (41) alkylsulfonyl as defined in C³ herein; and
- (42) substituted alkylsulfonyl as defined in D³ herein;

Z is -O- or -S-;

B is a group wherein W, together with -C(=Z)NR²-, forms a saturated or unsaturated heterocyclic group, wherein heterocyclic is defined in N herein, containing 2 to 5 carbon atoms and 0 to 4 additional heteroatoms selected from the group consisting of:

- (J²) nitrogen;
- (K²) oxygen; and
- (L²) -So_n- (where n is 0 to 2);

wherein said saturated or unsaturated heterocyclic group is optionally fused with one or two ring(s) structures selected from the group consisting of:

- (M²) cycloalkyl as defined in F herein;
- (N²) cycloalkenyl as defined in H herein;
- (O²) heterocyclic as defined in N herein;
- (P²) aryl as defined in J herein; and
- (Q²) heteroaryl group, wherein heteroayl is as defined in L herein, to form a bi- or tri-fused ring system and further wherein said heterocyclic group and each of such ring structures are optionally substituted with 1 to 3 substituents selected from the group consisting of with one or two substituent(s) selected from the group consisting of:
 - (1) hydrogen;
 - (2) halogen as defined in Q herein;
 - (3) hydroxy;
 - (4) alkoxy as defined in V herein;
 - (5) substituted alkoxy as defined in B¹ herein;

- (6) acyloxy as defined in T¹ herein;
- (7) substituted acyloxy;
- (8) amino as defined in C7 herein;
- (9) alkylamino as defined in I²9 herein;
- (10) substituted alkylamino as defined in I²10 herein;
- (11) dialkylamino as defined in I²11 herein;
- (12) substituted dialkylamino as defined in I²12 herein;
- (13) acylamino as defined in S¹ herein;
- (14) substituted acylamino;
- (15) N-acyl-N-alkylamino wherein acyl is defined in R¹ herein and alkylamino I²9 herein;
- (16) substituted N-acyl-N-alkylamino wherein acyl is defined in R¹ herein and substituted alkylamino is defined in I²10 herein;
- (17) alkylene dioxy;
- (18) (alkylsulfonyl)amino wherein alkylsulfonyl is defined in C³ herein and amino is define in C7 herein;
- (19) substituted (alkylsulfonyl)amino wherein substituted alkylsulfonyl is defined in D³ herein and amino is defined in C7 herein;
- (20) N-(alkylsulfonyl)-N-alkylamino wherein alkylsulfonyl is defined in C³ herein and alkylamino is defined in I²9 herein;
- (21) substituted N-(alkylsulfonyl)-N-alkylamino wherein substituted alkylsulfonyl is defined in D³ herein and substituted alkylamino is defined in I²10 herein;
- (22) alkyl as defined in B herein;
- (23) substituted alkyl as defined in C herein;
- (24) cycloalkyl as defined in F herein;
- (25) substituted cycloalkyl as defined in G herein;
- (26) alkenyl as defined in D herein;

- (27) substituted alkenyl as defined in E herein;
- (28) cycloalkenyl as defined in H herein;
- (29) substituted cycloalkenyl as defined in I herein;
- (30) alkynyl as defined in U herein;
- (31) substituted alkynyl having from 1 to 5 substituents selected from the group consisting of:
 - (a) alkoxy as defined in V herein;
 - (b) substituted alkoxy as defined in B¹ herein;
 - (c) acyl as defined in R¹ herein;
 - (d) acylamino as defined in S¹ herein;
 - (e) thiocarbonylamino as defined in B² herein;
 - (f) acyloxy as defined in T¹ herein;
 - (g) amino as defined in C7 herein;
 - (h) amidino as defined in C8 herein;
 - (i) alkylamidino wherein alkyl is defined in B herein and amidino is defined in C8 herein;
 - (j) thioamidino as defined in A2 herein;
 - (k) aminoacyl as defined in U¹ herein;
 - (1) aminocarbonylamino as defined in V¹ herein;
 - (m) aminothiocarbonylamino as defined in W¹ herein;
 - (n) aminocarbonyloxy as defined in X^1 herein;
 - (o) aryl as defined in J herein;
 - (p) substituted aryl as defined in K herein;
 - (q) aryloxy as defined in I¹ herein;
 - (r) substituted aryloxy as defined in J¹ herein;
 - (s) aryloxyaryl as defined in C19 herein;
 - (t) substituted aryloxyaryl as defined in C20 herein;
 - (u) halogen as defined in Q herein;
 - (v) hydroxyl;

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- (w) cyano;
- (x) nitro;
- (y) carboxyl;
- (z) carboxylalkyl wherein alkyl is defined in B herein;
- (a¹) carboxyl-substituted alkyl wherein substituted alkyl is defined in C herein;
- (b¹) carboxyl-cycloalkyl wherein cycloalkyl is defined in F herein;
- (c¹) carboxyl-substituted cycloalkyl wherein substituted cycloalkyl is defined in G herein;
- (d1) carboxylaryl wherein aryl is defined in J herein;
- (e¹) carboxyl-substituted aryl wherein substituted aryl is defined in K herein;
- (f¹) carboxylheteroaryl wherein heteroaryl is defined in L herein;
- (g¹) carboxyl-substituted heteroaryl wherein substituted heteroaryl is defined in M herein;
- (h¹) carboxylheterocyclic wherein heterocyclic is defined in N herein;
- (i¹) carboxyl-substituted heterocyclic wherein substituted heterocyclic is defined in O herein;
- (j1) cycloalkyl as defined in F herein;
- (k1) substituted cycloalkyl as defined in G herein;
- (11) guanidino as defined in C38 herein;
- (m¹) guanidinosulfone as defined in C39 herein;
- (n¹) thiol as defined in X² herein;
- (o¹) thioalkyl as defined in X herein;
- (p1) substituted thioalkyl as defined in C42 herein;
- (q1) thioaryl as defined in C43 herein;



- (r¹) substituted thioaryl as defined in C44 herein;
- (s1) thiocycloalkyl as defined in C45 herein;
- (t1) substituted thiocycloalkyl as defined in C46 herein;
- (u¹) thioheteroaryl as defined in C47 herein;
- (v1) substituted thioheteroaryl as defined in C48 herein;
- (w1) thioheterocyclic as defined in C49 herein;
- (x1) substituted thioheterocyclic as defined in C50 herein;
- (y¹) heteroaryl as defined in L herein;
- (z1) substituted heteroaryl as defined in M herein;
- (a²) heterocyclic as defined in N herein;
- (b²) substituted heterocyclic as defined in O herein;
- (c²) cycloalkoxy as defined in E¹ herein;
- (d²) substituted cycloalkoxy as defined in F¹ herein;
- (e²) heteroaryloxy as defined in K¹ herein;
- (f²) substituted heteroaryloxy as defined in L¹ herein;
- (g²) heterocyclyloxy as defined in M¹ herein;
- (h²) substituted heterocyclyloxy as defined in N¹ herein;
- (i²) oxycarbonylamino as defined in Y¹ herein;
- (j^2) oxythiocarbonylamino as defined in Z^1 herein;
- (k²) -OS(O)₂-alkyl wherein alkyl is defined in B herein;
- (l²) -OS(O)₂-substituted alkyl wherein substituted alkyl is defined in C herein;
- (m²) -OS(O)₂-aryl wherein aryl is defined in J herein;
- (n²) -OS(O)₂-substituted aryl wherein substituted aryl is defined in K herein;
- (o²) -OS(O)₂-heteroaryl wherein heteroaryl is defined in L herein;
- (p²) -OS(O)₂-substituted heteroaryl wherein substituted heteroaryl is defined in M herein;

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- (q²) -OS(O)₂-heterocyclic wherein heterocyclic is defined in N herein;
- (r²) -OS(O)₂-substituted heterocyclic wherein substituted heterocyclic is defined in O herein;
- (s²) $-OSO_2$ -NRR where R is:
 - (a) hydrogen; or
 - (b) alkyl as defined in B herein;
- -NRS(O)₂-alkyl wherein alkyl is defined in B herein;
- (u²) -NRS(O)₂-substituted alkyl wherein substituted alkyl is defined in C herein;
- (v²) -NRS(O)₂-aryl wherein aryl is defined in J herein;
- (w²) -NRS(O)₂-substituted aryl wherein substituted aryl is defined in K herein;
- (x²) -NRS(O)₂-heteroaryl wherein heteroaryl is defined in L herein;
- (y²) -NRS(O)₂-substituted heteroaryl wherein substituted heteroaryl is defined in M herein;
- (z²) -NRS(O)₂-heterocyclic wherein heterocyclic is defined in N herein;
- (a³) -NRS(O)₂-substituted heterocyclic wherein substituted heterocyclic is defined in O herein;
- (b³) -NRS(O)₂-NR-alkyl wherein alkyl is defined in B herein;
- (c³) -NRS(O)₂-NR-substituted alkyl wherein substituted alkyl is defined in C herein;
- (d³) -NRS(O)₂-NR-aryl wherein aryl is defined in J herein;
- (e³) -NRS(O)₂-NR-substituted aryl wherein substituted aryl is defined in K herein;

- (f³) -NRS(O)₂-NR-heteroaryl wherein heteroaryl is defined in L herein;
- (g³) -NRS(O)₂-NR-substituted heteroaryl wherein substituted heteroaryl is defined in M herein;
- (h³) -NRS(O)₂-NR-heterocyclic wherein heterocyclic is defined in N herein;
- (i³) -NRS(O)₂-NR-substituted heterocyclic wherein substituted heterocyclic is defined in O herein and where R is:
 - (a) hydrogen; or
 - (b) alkyl as defined in B herein;
- (j³) mono- and di-alkylamino wherein alkylamino is defined in I²9 herein;
- (k³) mono- and di-(substituted alkyl)amino wherein substituted alkyl is defined in C herein and amino is defined in C7 herein;
- (l³) mono- and di-arylamino wherein aryl is defined in J herein and amino is defined in C7 herein;
- (m³) mono- and di-substituted arylamino wherein substituted aryl is defined in K herein and amino is defined in C7 herein;
- (n³) mono- and di-heteroarylamino wherein heteroaryl is defined in L herein and amino is defined in C7 herein;
- (o³) mono- and di-substituted heteroarylamino wherein substituted heteroaryl is defined in M herein and amino is defined in C7 herein;
- (p³) mono- and di-heterocyclic amino wherein heterocyclic is defined in N herein and amino is defined in C7 herein;

- (q³) mono- and di-substituted heterocyclic amino wherein substituted heterocyclic is defined in O herein and amino is defined in C7 herein;
- (r³) unsymmetric di-substituted amines having different substituents selected from:
 - (a) alkyl as defined in B herein;
 - (b) substituted alkyl as defined in C herein;
 - (c) aryl as defined in J herein;
 - (d) substituted aryl as defined in K herein;
 - (e) heteroaryl as defined in L herein;
 - (f) substituted heteroaryl as defined in M herein;
 - (g) heterocyclic as defined in N herein; and
 - (h) substituted heterocyclic as defined in O herein and substituted alkynyl groups having amino groups blocked by conventional blocking groups such as Boc, Cbz, formyl, and the like or alkynyl/substituted alkynyl groups substituted with:
 - -SO₂-alkyl wherein alkyl is defined in B herein;
 - (ii) -SO₂-substituted alkyl wherein substituted alkyl is defined in C herein;
 - (iii) -SO₂-alkenyl wherein alkenyl is defined in D herein;
 - (iv) -SO₂-substituted alkenyl wherein substituted alkenyl is defined in E herein;
 - (v) -SO₂-cycloalkyl wherein cycloalkyl is defined in F herein;

- (vi) -SO₂-substituted cycloalkyl wherein substituted cycloalkyl is defined in G herein;
- (vii) -SO₂-aryl wherein aryl is defined in J herein;
- (viii) -SO₂-substituted aryl wherein substituted aryl is defined in K herein;
- (ix) -SO₂-heteroaryl wherein heteroaryl is defined in L herein;
- (x) -SO₂-substituted heteroaryl wherein substituted heteroaryl is defined in M herein;
- (xi) -SO₂-heterocyclic wherein heterocyclic is defined in N herein;
- (xii) -SO₂-substituted heterocyclic wherein substituted heterocyclic is defined in O herein; and
- (xiii) -SO₂NRR where R is:
 - (a) hydrogen; or
 - (b) alkyl as defined in B herein;

- (R²) cyano;
- (S²) acyl as defined in R¹ herein;
- (T²) substituted acyl;
- (U²) carboxy;
- (V²) substituted carboxy;
- (W²) nitro;
- (X²) thiol having the formula "-SH";
- (Y²) alkylthio as defined in X herein;
- (Z²) substituted alkylthio having the formula "-S-substituted alkyl";

- (A³) alkylsulfoxy having the formula "-SO-alkyl";
- (B³) substituted alkylsulfoxy having the formula "-SO-substituted alkyl";
- (C³) alkylsulfonyl having the folrmula "-SO₂-alkyl";
- (D³) substituted alkylsulfonyl having the formula "-SO₂-substituted alkyl";
- (E³) aryl as defined in J herein;
- (F³) substituted aryl as defined in K herein;
- (G³) heteroaryl as defined in L herein; and
- (H³) substituted heteroaryl as defined in M herein;

R² is selected from the group consisting of:

- (I³) alkyl as defined in B herein;
- (J³) substituted alkyl as defined in C herein;
- (K³) aryl as defined in J herein;
- (L3) substituted aryl as defined in K herein;
- (M³) heteroaryl as defined in L herein;
- (N³) substituted heteroaryl as defined in M herein;
- (O³) cycloalkyl as defined in F herein;
- (P³) substituted cycloalkyl as defined in G herein;
- (Q3) cycloalkenyl as defined in H herein; and
- (R³) substituted cycloalkenyl as defined in I herein;

C is a group wherein W', together with -C(=Z)N-, forms a saturated or unsaturated heterocyclic group containing 2 to 5 carbon atoms and 0 to 4 additional heteroatoms selected from the group consisting of:

- (S^3) nitrogen;
- (T³) oxygen; and
- (U³) -So_n- (where n is 0 to 2);

wherein said saturated or unsaturated heterocyclic group is optionally fused with one or two ring(s) structures selected from the group consisting of:

- (V³) cycloalkyl as defined in F herein;
- (W³) cycloalkenyl as defined in H herein;

- (X³) heterocyclic as defined in N herein;
- (Y³) aryl as defined in J herein; and
- (Z³) heteroaryl group, wherein heteroaryl is defined in L herein, to form a bi- or tri-fused ring system and further wherein said heterocyclic group and each of such ring structures are optionally substituted with 1 to 3 substituents selected from the group consisting of with one or two substituent(s) selected from the group consisting of:
 - (1) hydrogen;
 - (2) halogen as defined in Q herein;
 - (3) hydroxy;
 - (4) alkoxy as defined in V herein;
 - (5) substituted alkoxy as defined in B¹ herein;
 - (6) alkylenedioxy;
 - (7) acyloxy as defined in T^1 herein;
 - (8) substituted acyloxy;
 - (9) amino as defined in C7 herein;
 - (10) alkylamino as defined in I²9 herein;
 - (11) substituted alkylamino as defined in I²10 herein;
 - (12) dialkylamino as defined in I^211 herein;
 - (13) substituted dialkylamino as defined in I²12 herein;
 - (14) acylamino as defined in S¹ herein;
 - (15) substituted acylamino;
 - (16) N-acyl-N-alkylamino wherein acyl is defined in R¹ herein and alkylamino I²9 herein;
 - (17) substituted N-acyl-N-alkylamino wherein acyl is defined in R¹ herein and substituted alkylamino is defined in I²10 herein;
 - (18) (alkylsulfonyl)amino wherein alkylsulfonyl is defined in C³ herein and amino is defined in C7 herein;

- (19) substituted (alkylsulfonyl)amino wherein substituted alkylsulfonyl is defined in D³ herein and amino is defined in C7 herein;
- (20) N-(alkylsulfonyl)-N-alkylamino wherein alkylsulfonyl is defined in C³ herein and alkylamino is defined in I²9 herein;
- (21) substituted N-(alkylsulfonyl)-N-alkylamino wherein substituted alkylsulfonyl is defined in D³ herein and substituted alkylamino is defined in I²10 herein;
- (22) alkyl as defined in B herein;
- (23) substituted alkyl as defined in C herein;
- (24) cycloalkyl as defined in F herein;
- (25) substituted cycloalkyl as defined in G herein;
- (26) alkenyl as defined in D herein;
- (27) substituted alkenyl as defined in E herein;
- (28) cycloalkenyl as defined in H herein;
- (29) substituted cycloalkenyl as defined in I herein;
- (30) alkynyl as defined in U herein;
- (31) substituted alkynyl as defined in Q²31 herein;
- (32) cyano;
- (33) nitro;
- (34) acyl as defined in R¹ herein;
- (35) substituted acyl;
- (36) carboxy;
- (37) substituted carboxy;
- (38) thiol as defined in X^2 herein;
- (39) alkylthio as defined in X herein;
- (40) substituted alkylthio as defined in \mathbb{Z}^2 herein;
- (41) alkylsulfoxy as defined in A³ herein;
- (42) substituted alkylsulfoxy as defined in B³ herein;

- (43) alkylsulfonyl as defined in C³ herein;
- (44) substituted alkylsulfonyl as defined in D³ herein;
- (45) aryl as defined in J herein;
- (46) substituted aryl as defined in K herein;
- (47) heteroaryl as defined in L herein; and
- (48) substituted heteroaryl as defined in M herein; or
- (iii) HetAr where HetAr is a:
 - (A⁴) nitrogen containing heteroaryl, having a heteroaryl ring that contains at least one nitrogen atom in the ring, and that is optionally substituted with:
 - (1) aryl as defined in J herein; or
 - (2) substituted aryl group, wherein substituted aryl is defined in K herein;

or enantiomers, diastereomers or pharmaceutically acceptable salts thereof; and further wherein the compound of Formula I has a binding affinity to VLA-4 as expressed by an IC $_{50}$ of 15 μ M or less.

48. (Amended) A method for treating a disease mediated by VLA-4 in a patient, wherein the disease is selected from the group consisting of asthma, Alzheimer's disease, atherosclerosis, AIDS dementia, diabetes, acute juvenile onset diabetes, inflammatory bowel disease, ulcerative colitis, Crohn's disease, multiple sclerosis, rheumatoid arthritis, tissue transplantation, tumor metastasis, meningitis, encephalitis, stroke, and other cerebral traumas, nephritis, retinitis, atopic dermatitis, psoriasis, myocardial ischemia, acute leukocyte-mediated lung injury, adult respiratory distress syndrome, erythema nodosum, allergic conjunctivitis, optic neuritis, uveitis, allergic rhinitis, Ankylosing spondylitis, psoriatic arthritis, vasculitis, Reiter's syndrome, systemic lupus erythematosus, progressive systemic sclerosis, polymyositis, dermatomyositis, Wegner's granulomatosis, aortitis, sarcoidosis,

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lymphocytopenia, temporal arteritis, pericarditis, myocarditis, congestive heart failure, polyarteritis nodosa, hypersensitivity syndromes, allergy, hypereosinophilic syndromes, Churg-Strauss syndrome, chronic obstructive pulmonary disease, hypersensitivity pneumonitis, chronic active hepatitis, interstitial cystitis, autoimmune endocrine failure, primary biliary cirrhosis, autoimmune aplastic anemia, chronic persistent hepatitis and thyroiditis, which method comprises administering a pharmaceutical composition comprising a pharmaceutically acceptable carrier and a therapeutically effective amount of a compound of any one of Claims 27-32 or 34-47.

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(Amended) A method for treating a disease mediated by VLA-4 in a patient, wherein the disease is selected from the group consisting of asthma, Alzheimer's disease, atherosclerosis, AIDS dementia, diabetes, acute iuvenile onset diabetes, inflammatory bowel disease, ulcerative colitis, Crohn's disease, multiple sclerosis, rheumatoid arthritis, tissue transplantation, tumor metastasis, meningitis, encephalitis, stroke, and other cerebral traumas, nephritis, retinitis, atopic dermatitis, psoriasis, myocardial ischemia, acute leukocyte-mediated lung injury, adult respiratory distress syndrome, erythema nodosum, allergic conjunctivitis, optic neuritis, uveitis, allergic rhinitis, Ankylosing spondylitis, psoriatic arthritis, vasculitis, Reiter's syndrome, systemic lupus erythematosus, progressive systemic sclerosis, polymyositis, dermatomyositis, Wegner's granulomatosis, aortitis, sarcoidosis, lymphocytopenia, temporal arteritis, pericarditis, myocarditis, congestive heart failure, polyarteritis nodosa, hypersensitivity syndromes, allergy, hypereosinophilic syndromes, Churg-Strauss syndrome, chronic obstructive pulmonary disease, hypersensitivity pneumonitis, chronic active hepatitis, interstitial cystitis, autoimmune endocrine failure, primary biliary cirrhosis, autoimmune aplastic anemia, chronic persistent hepatitis and thyroiditis, which method comprises administering a pharmaceutical composition

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comprising a pharmaceutically acceptable carrier and a therapeutically effective amount of a compound of Claim 33.

53. (New) A compound having the structure

r 4

wherein:

R¹⁶ is selected from the group consisting of hydrogen, alkyl, substituted alkyl, alkoxy, substituted alkoxy, amino, substituted amino, cycloalkyl, substituted cycloalkyl, aryl, substituted aryl, heteroaryl, substituted heteroaryl, heterocyclic, substituted heterocyclic and halogen;

R¹⁸ is selected from the group consisting of alkyl, substituted alkyl, alkoxy, substituted alkoxy, amino, substituted amino, cycloalkyl, substituted cycloalkyl, aryl, substituted aryl, heteroaryl, substituted heteroaryl, heterocyclic and substituted heterocyclic; and

R²⁰ is selected from the group consisting of hydrogen, alkyl, substituted alkyl, alkoxy, substituted alkoxy, cycloalkyl, substituted cycloalkyl, aryl, substituted aryl, heteroaryl, substituted heteroaryl, heterocyclic, substituted heterocyclic and halogen.

- 54. (New) A method for treating a disease mediated by VLA-4 in a patient, which method comprises administering a pharmaceutical composition comprising a pharmaceutically acceptable carrier and a therapeutically effective amount of a compound of Claim 53.
- (New) A pharmaceutical composition comprising a pharmaceutically acceptable carrier and a therapeutically effective amount of a compound of Claim 53.
 - 56. (New) A method for binding VLA-4 in a biological sample which method comprises contacting the biological sample, comprising blood or plasma withdrawn from a patient, with a compound of Claim 53 under conditions wherein said compound binds to VLA-4.